



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

Peerless Products, Inc.

2403 South Main

Fort Scott, KS 66701

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "G051A & G051B Thermally Broken" Outswing Aluminum Casement Window - L.M.I.

APPROVAL DOCUMENT: Drawing No. PEER0002, titled "Series G051 Casement Alum. Thermally Broken Window", sheets 1 through 16 of 16, dated 09/19/13, with revision A dated 09/23/13, prepared by PTC Product Design Group, LLC, signed and sealed by Robert James Amoruso, P.E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by Manuel Perez, P.E.



MP
10/29/13

NOA No. 13-0409.16
Expiration Date: November 07, 2018
Approval Date: November 07, 2013
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No **PEER0002**, titled "Series G051 Casement Alum. Thermally Broken Window", sheets 1 through 16 of 16, dated 09/19/13, with revision A dated 09/23/13, prepared by PTC Product Design Group, LLC, signed and sealed by Robert James Amoruso, P.E.

B. TESTS

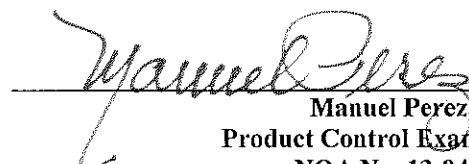
1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94
along with marked-up drawings and installation diagram of a series G051A and G005B aluminum casement windows, prepared by Construction Consulting Laboratory, International, Test Report No. **CCLI-11-127**, dated 07/17/11, and amendment letter dated 09/24/13, all signed and sealed by Abdol Rezadad, P.E.

C. CALCULATIONS

1. Anchor calculations and structural analysis, complying with **FBC-2010**, dated 03/01/13, prepared by PTC Product Design Group, LLC, signed and sealed by Robert James Amoruso, P.E.
2. Glazing complies with **ASTM E1300-04**

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)


Manuel Perez, P.E.
Product Control Examiner
NOA No. 13-0409.16
Expiration Date: November 07, 2018
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E. MATERIAL CERTIFICATIONS


1. Notice of Acceptance No. **13-0129.27** issued to **E.I. DuPont DeNemours & Co., Inc.** for their "**DuPont Butacite® PVB Interlayer**" dated 04/11/13, expiring on 12/11/16.
2. Test report No. **ATI-61261.01-106-18**, prepared by Architectural Testing, Inc., dated 12/08/05, with revision date 01/04/06, issued to **Technoform**, for their **I-Strut Insulating Strip** comprised of Polyamide with 25% glass fibers, per **ASTM D635-03** "Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position" and **ASTM D2843-99** "Standard Test Method for the Density of Smoke from the Burning Decomposition of Plastics", signed and sealed by Joseph A. Reed, P.E.
3. Test report No. **ETC-07-1043-19094.0**, prepared by ETC Laboratories, dated 02/04/08, issued to Technoform Bautech NA, Inc., for their **I-Strut Insulating Strip** comprised of Polyamide with 25% glass fibers, per **ASTM D638-03** "*Standard Test Methods for Tensile Properties of Plastics*", for exposed & unexposed sample per Xenon Arc after 4500 Hours, signed and sealed by Joseph Labora Doldan, P.E.
4. Test report No. **ETC-08-1043-20974.0**, prepared by ETC Laboratories, dated 07/01/08, issued to Technoform, for their **I-Strut Insulating Strip** comprised of Polyamide with 25% glass fibers, per **ASTM D1929-96** "*Standard Test Method for Ignition Properties of Plastics*", signed and sealed by Joseph Doldan, P.E.
5. Material Data Sheet for "insulating profiles made of PA 66 GF25 – dry impact resistant, to fit into Technoform I-Strut™ Aluminum Standard Reglet.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC-2010**, and of no financial interest, dated April 01, 2013, signed and sealed by Robert James Amoruso, P.E.
2. Proposal No. **10-1105** issued by Product Control, dated October 22, 2010, signed by Manuel Perez, P.E.

G. OTHER

1. None.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 13-0409.16
Expiration Date: November 07, 2018
Approval Date: November 07, 2013

PEERLESS PRODUCTS, INC.

SERIES G051 CASEMENT THERMALLY BROKEN WINDOW - IMPACT

INSTALLATION ANCHORAGE DETAILS

GENERAL NOTES:

- THIS PRODUCT HAS BEEN TESTED, EVALUATED AND DESIGNED TO THE DESIGN PRESSURE(S) STATED HEREIN AS FOLLOWS.
 - IN COMPLIANCE WITH THE 2010 FLORIDA BUILDING CODE - SECTIONS 1609.1.2, 1626, 1715.5.2, 1715.5.4 AND 2411.3 AND TO THE 2010 FLORIDA RESIDENTIAL CODE - SECTIONS R301.2.1.2, R612.6, R612.10, R4403.16 AND R4410.2.3.
 - PERFORMANCE STANDARDS:
 - TAS 201-94, LARGE MISSILE IMPACT
 - TAS-202-94
 - TAS 203-94
- THE PRODUCT DETAILS CONTAINED HEREIN ARE BASED UPON SIGNED AND SEALED TEST REPORT NO. CCL1 #11-127, DATED JULY 17, 2011 AND ASSOCIATED LABORATORY DRAWINGS BY CONSTRUCTION CONSULTING LABORATORY, INTL. TESTING WAS CONDUCTED TO TAS 201-94, TAS 202-94 AND TAS 203-94.
- THIS PRODUCT EVALUATION DOCUMENT IS FOR USE IN THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
- ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE / MASONRY, 2X FRAMING AND METAL FRAMING SUBSTRATES AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE LICENSED PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT ACTING AS THE DESIGN PROFESSIONAL OF RECORD FOR THE PROJECT OF INSTALLATION.
- 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE LICENSED PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT ACTING AS THE DESIGN PROFESSIONAL OF RECORD FOR THE PROJECT OF INSTALLATION.
- AN APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED ON THIS PRODUCT WHEN INSTALLED IN AREAS REQUIRING WIND BORNE DEBRIS PROTECTION. THIS INCLUDES THE HIGH VELOCITY WIND ZONE (HVHZ).
- SITE CONDITIONS NOT COVERED IN THIS PRODUCT EVALUATION DOCUMENT ARE SUBJECT TO ADDITIONAL ENGINEERING ANALYSIS BY A LICENSED PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
- MATERIALS:
 - WINDOW FRAME MATERIAL: ALUMINUM ALLOY 6063-T5.
 - LAMINATED GLAZING INTERLAYERS: DUPONT BUTACITE INTERLAYER MATERIAL PER CURRENT MD NOA.
 - THERMAL BREAK MATERIAL: POLYAMIDE WITH REINFORCED GLASS FIBERS BY ENSINGER OR TECHNOFORM.
- GLASS MEETS THE REQUIREMENTS OF ASTM E1300-09a.
- DESIGNATION "X" STANDS FOR THE FOLLOWING OPERABLE SASH.
- THESE DRAWINGS CERTIFY THE WINDOW INSTALLATION ONLY. RECOMMENDATIONS FOR SEALING PROVIDED BY THE MANUFACTURER HAVE BEEN INCLUDED. WATER RESISTIVE SEALING OF THE INSTALLED WINDOW IS NOT PART OF THIS INSTALLATION CERTIFICATION. THAT RESPONSIBILITY SHALL BE THAT OF THE MANUFACTURER AND/OR THE INSTALLER.

PERFORMANCE AND IMPACT RATING		
GLAZING DETAIL	DESIGN PRESSURE RATING	IMPACT RATING
A	+/- 80 PSF	LARGE AND SMALL MISSILE IMPACT
B	+/- 80 PSF	LARGE MISSILE IMPACT
C	+/- 80 PSF	LARGE AND SMALL MISSILE IMPACT
SEE SHEET 13 FOR LIMITATIONS RELATED TO GLAZING DETAIL B.		

INSTALLATION NOTES:

- PRODUCT ANCHORS SHALL BE AS DESIGNATED AND LOCATED AS SHOWN IN THIS PRODUCT EVALUATION DOCUMENT. ANCHOR EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER AND SIDING.
- SEE INSTALLATION ANCHOR SCHEDULE ON SHEET 2 FOR TYPE AND GRADE OF ANCHOR, AND/OR MANUFACTURER'S ANCHOR SPECIFICATIONS, INCLUDING MINIMUM NOMINAL SIZE, MINIMUM EMBEDMENT INTO SUBSTRATE AND MINIMUM EDGE DISTANCES.
 - EDGE DISTANCES SHALL BE MEASURED FROM CENTERLINE OF ANCHOR TO EDGE OF STRUCTURAL SUBSTRATE EITHER TO THE INTERIOR OR EXTERIOR OF THE FENESTRATION PRODUCT.
 - MINIMUM EMBEDMENT SHALL BE BASED ON PENETRATION INTO MAIN WIND FORCE RESISTING SYSTEM SUBSTRATE.
- SEE SHEETS 3 AND 4 FOR ANCHOR SPACING AND QUANTITIES FOR MAXIMUM WINDOW SIZE SHOWN. ANCHOR QUANTITIES CAN BE REDUCED ON SMALLER WINDOWS IF ANCHOR SPACING LIMITATIONS ARE MET. SEE SHEETS 5 THROUGH 12 FOR SPECIFIC ANCHOR INSTALLATION DETAILS.
- FOR INSTALLATION USING SLIDE-ON INSTALLATION STRAP/CLIP, TWO (2) INSTALLATION ANCHORS ARE REQUIRED AT EACH ANCHOR LOCATION SHOWN. FOR G051B INSTALLATION USING RECEPTOR SUBFRAME, ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
- MAXIMUM ALLOWABLE SHIM THICKNESS IS 1/4 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF WOOD COMPOSITE, HIGH DENSITY PLASTIC OR SIMILAR LOAD BEARING MATERIAL.
- FOR CONCRETE BLOCK APPLICATIONS DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS.
- INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED IN THE INSTALLATION ANCHOR SCHEDULE ON SHEET 2.

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4	G051B WITH RECEPTOR SUBFRAME - ELEVATION & ANCHORING LAYOUT
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PROJECT # 412-0906

PEERLESS PRODUCTS, INC.
PO BOX 431, 2403 S. MAIN STREET
FORT SCOTT, KS 66701

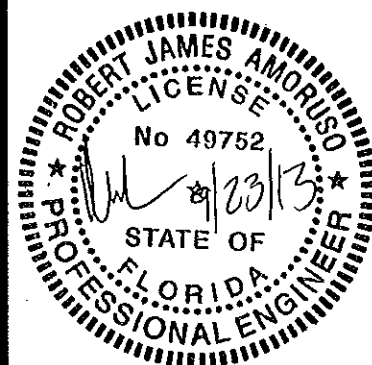
TITLE: SERIES G051 CASEMENT ALUM. THERMALLY BROKEN WINDOW
GENERAL NOTES, INSTALLATION NOTES & TABLE OF CONTENTS

PREPARED BY: RJA
DATE: 09/19/13
DRAWING NO: PEER0002
SCALE: N.T.S.
REV: A
SHEET: 1 OF 16

PTC PRODUCT DESIGN GROUP, LLC
PO BOX 120773
LONGVIEW, TX 75602
Phone: 321.690.1788
Fax: 321.690.1789
Email: info@ptc-corp.com
FBI/CA NO. 2303

Approved as complying with the
Florida Building Code
Date: 9/23/13
NOAH 13-0407-16
Miami Dade Product Control
By: [Signature]

Robert J. Amoroso, P.E.
Florida P.E. No. 49752



INSTALLATION ANCHOR SCHEDULE - SLIDE-ON STRAP OPTION "A"

INSTALLATION TYPE	FASTENER HEAD TYPE	FASTENER SIZE	SUBSTRATE	MANUFACTURER AND/OR SPECIFICATION	MIN. EMBEDMENT (IN)	MIN. EDGE DISTANCE (IN)	MIN. SPACING (IN) BETWEEN FRAME ANCHORS *	ANCHOR CAPACITIES BASED ON
INSTALLATION CLIP	FLAT OR HEX HEAD	3/16"	CONCRETE	ITW TAPCONS (1)	1-1/2"	1-1/8"	3"	MIN. 2000 PSI CONCRETE
				ELCO ULTRACONS	1-3/4"	1"	1.125"	MIN. 2500 PSI CONCRETE
			MASONRY (BLOCK/CMU)	ITW TAPCONS (1)	1"	2"	3"	STRENGTH CONFORMANCE TO ASTM C-90, MEDIUM WEIGHT (DENSITY > 117 PCF)
				ELCO ULTRACONS	1-1/4"	2.5"	1.125"	
	FLAT OR PAN HEAD	NO. 12	WOOD	ANSI B18.6.1 (WOOD SCREW) (2)	1-3/8"	7/8"	2.5"	WOOD WITH A MINIMUM SPECIFIC GRAVITY OF 0.55.
				ASME B18.6.4 (TAPPING SCREW) (2)				

* DOES NOT INCLUDE ANCHOR SPACING ON STRAP. THAT HAS BEEN ACCOUNTED FOR IN ENGINEERING EVALUATION.

INSTALLATION ANCHOR SCHEDULE - RECEPTOR SUBFRAME OPTION "B"

INSTALLATION TYPE	FASTENER HEAD TYPE	FASTENER SIZE	SUBSTRATE	MANUFACTURER AND/OR SPECIFICATION	EMBEDMENT (IN)	EDGE DISTANCE (IN)	MIN. SPACING (IN) BETWEEN FRAME ANCHORS	ANCHOR CAPACITIES BASED ON
SUBFRAME	FLAT OR HEX HEAD	1/4"	CONCRETE	ITW TAPCONS (1)	1-1/2"	1-1/2"	4"	MIN. 2000 PSI CONCRETE
				ELCO ULTRACONS	1-3/4"	1"	3"	MIN. 2500 PSI CONCRETE
			MASONRY (BLOCK/CMU)	ITW TAPCONS (1)	1"	2"	4"	STRENGTH CONFORMANCE TO ASTM C-90, MEDIUM WEIGHT (DENSITY > 117 PCF)
				ELCO ULTRACONS	1-1/4"	1"	6"	
	FLAT OR PAN HEAD	NO. 14	WOOD	ANSI B18.6.1 (WOOD SCREW) (2)	1-1/2"	1"	2.5"	WOOD WITH A MINIMUM SPECIFIC GRAVITY OF 0.55.
				ASME B18.6.4 (TAPPING SCREW) (2)				

NOTES:

- 1) WHEN ITW TAPCONS ARE USED FOR CONCRETE/MASONRY INSTALLATION, THEY SHALL BE THE ADVANCED THREADFORM TECHNOLOGY TYPE.
- 2) FOR WOOD AND TAPPING SCREWS INSTALLATION INTO WOOD SUBSTRATE; IF SPLITTING IS A CONCERN, DRILL 0.1365" PILOT HOLE (DRILL SIZE 29) FOR NO. 12 AND 0.155" PILOT HOLE (DRILL SIZE 23) FOR NO. 14.

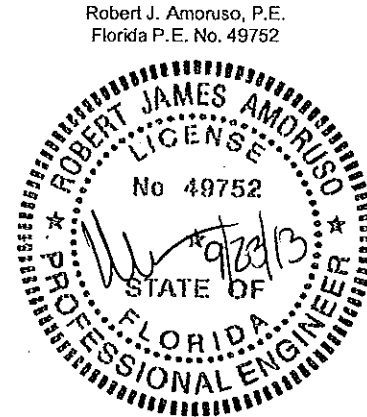
PROJECT # 412-0906

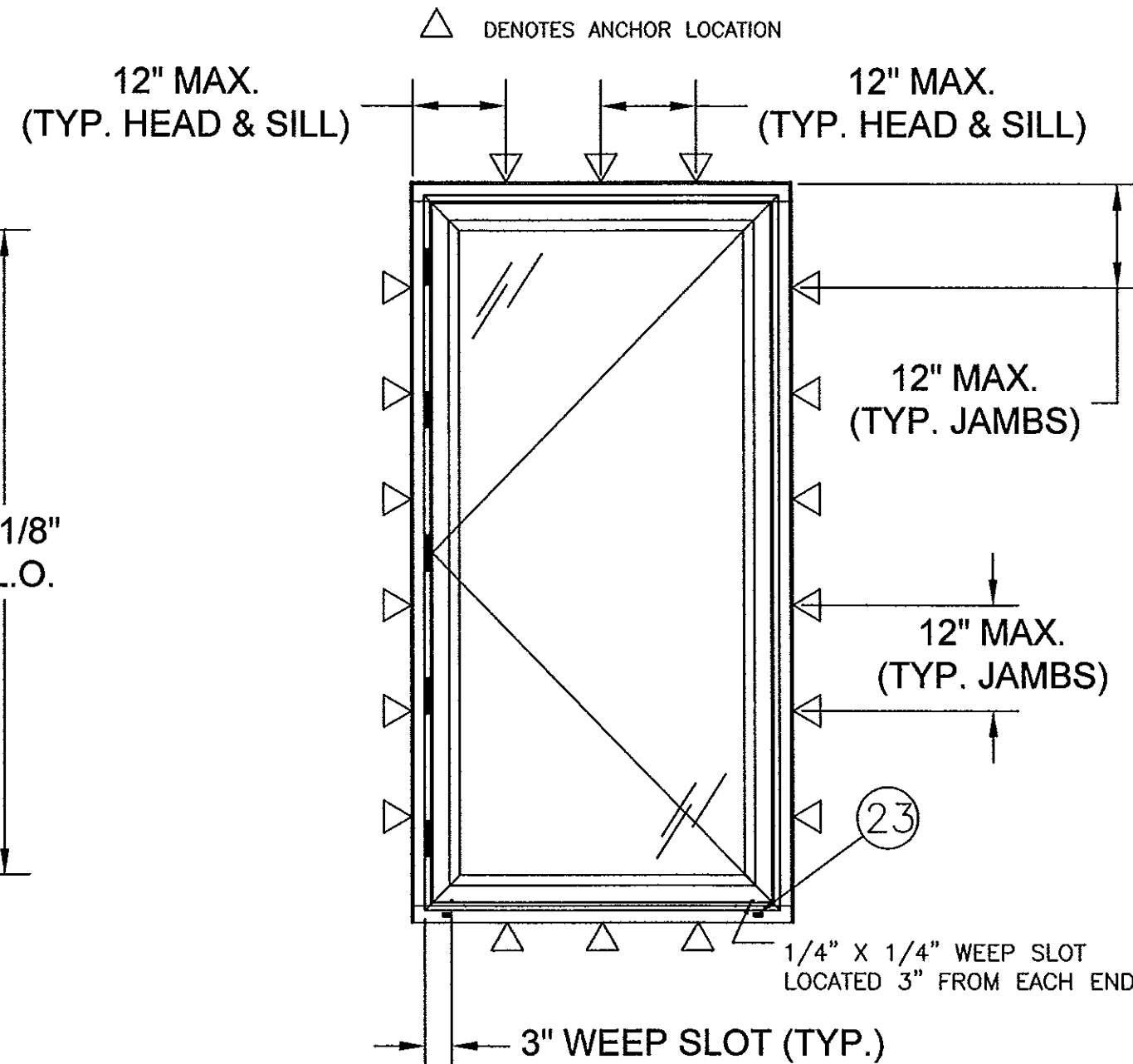
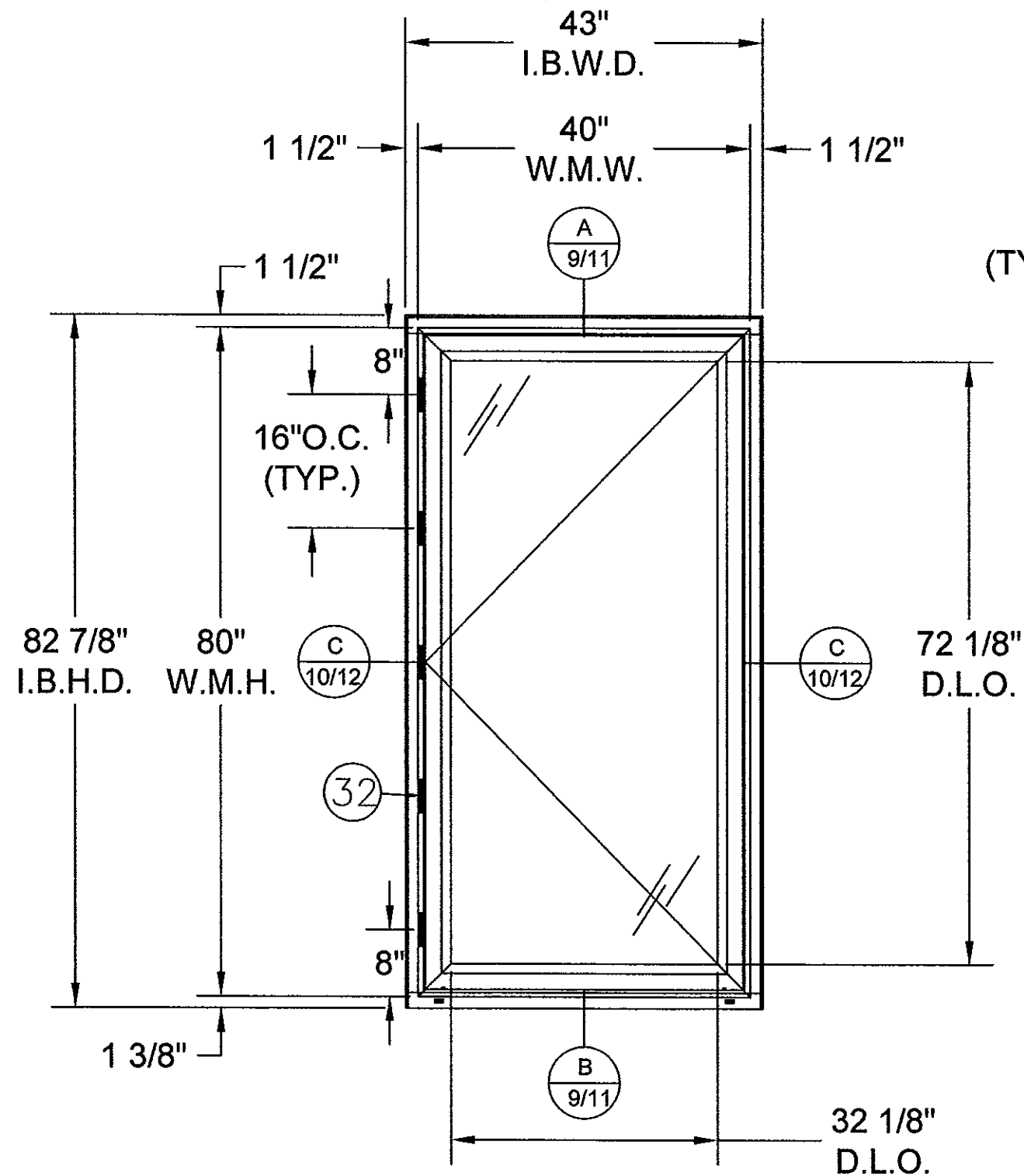
PEERLESS PRODUCTS, INC.
PO BOX 431, 2403 S. MAIN STREET
FORT SCOTT, KS 66701

TITLE: SERIES G051 CASEMENT ALUM. THERMALLY BROKEN WINDOW
INSTALLATION ANCHOR SCHEDULE & INSTALLATION NOTES

DATE:	09/19/13
DRAWN BY:	RJA
SCALE:	N.T.S.
DRAWING NO.:	PEER0002
REV:	A
SHEET:	2 OF 16


Approved as complying with the
Florida Building Code
Date: Nov 7, 2013
NOA# 13-040716
Miami Dade Product Control
By: [Signature]





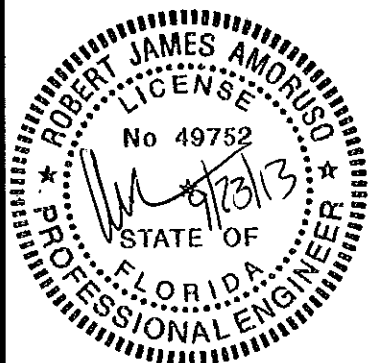
SERIES G051B CASEMENT WINDOW

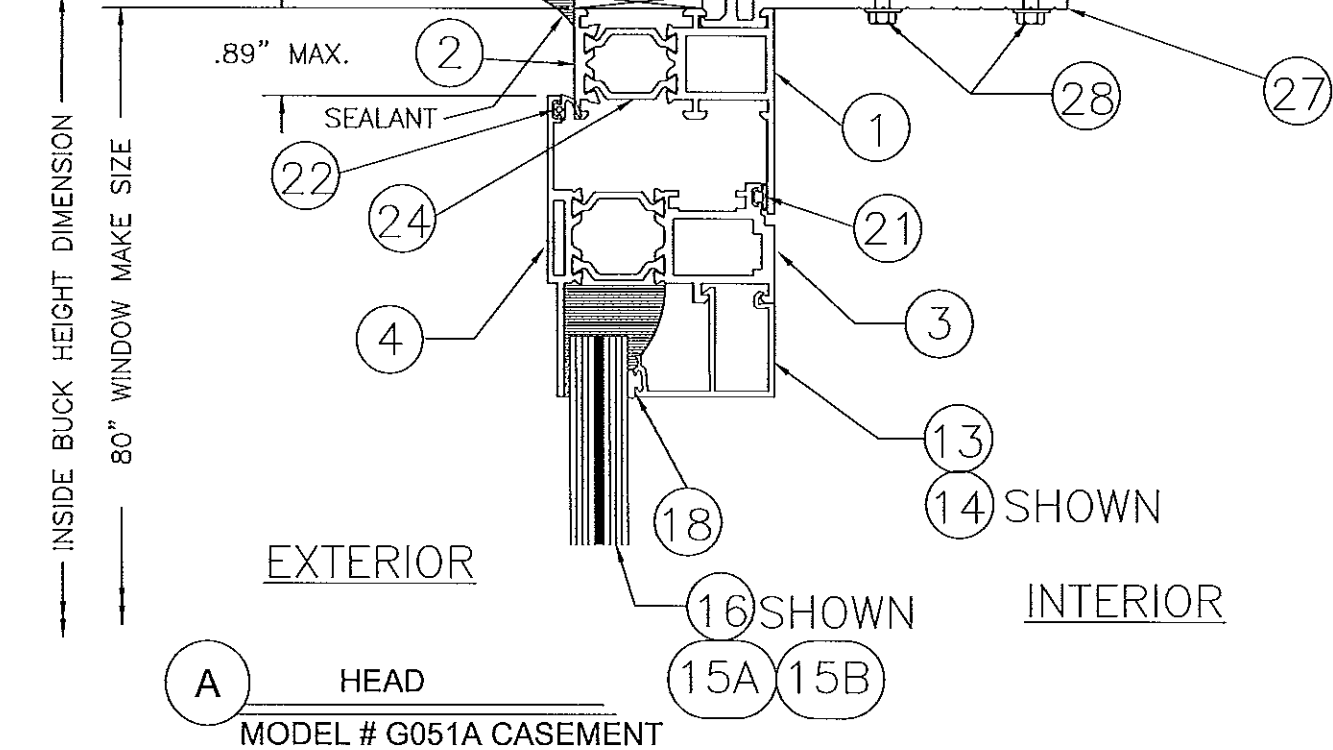
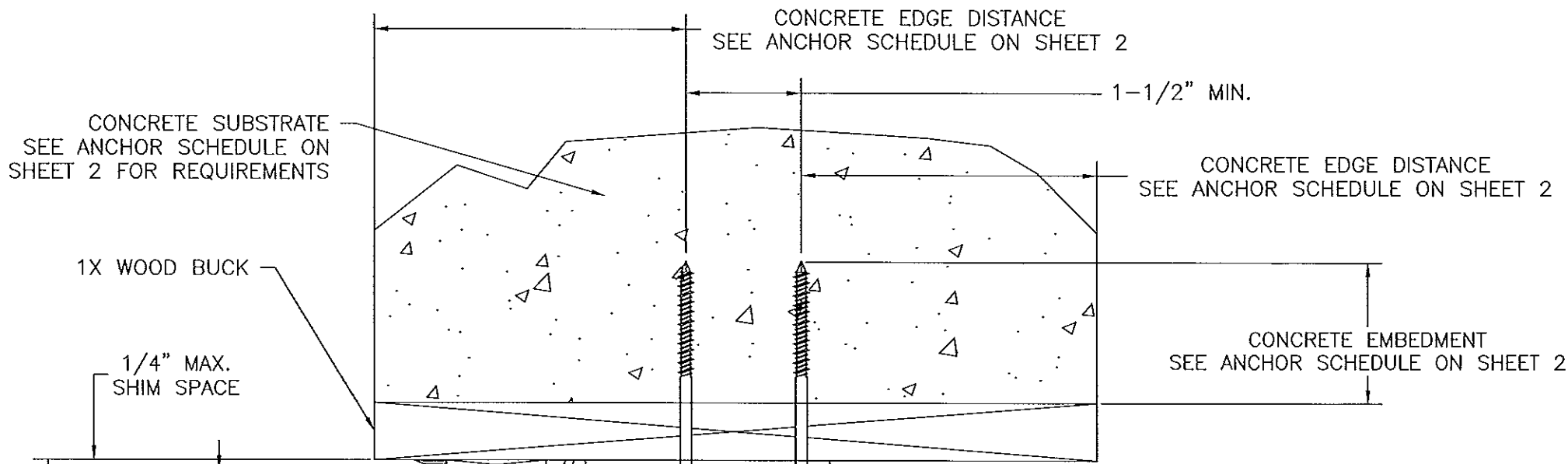
EXTERIOR VIEW
WITH RECEPTOR SUBFRAME

PEERLESS PRODUCTS, INC. PO BOX 431, 2403 S. MAIN STREET FORT SCOTT, KS 66701		PROJECT # 412-0906	
TITLE: SERIES G051 CASEMENT ALUM. THERMALLY BROKEN WINDOW G051B W/RECEPTOR SUBFRAME - ELEV. & ANCHORING LAYOUT			
PREPARED BY:	DRAWN BY: RJA	DATE: 09/19/13	
SCALE:	N.T.S.	DRAWING NO: PEER0002	
REV:	A	SHEET: 4 OF 16	
		REVISED PER MIAMI-DADE COMMENTS REC'D 9/8/13	RJA
PDC PRODUCT DESIGN GROUP, LLC PO BOX 420775 LONGWOOD, FLORIDA 32752 FBPE C.A. NO. 208315		DATE	BY

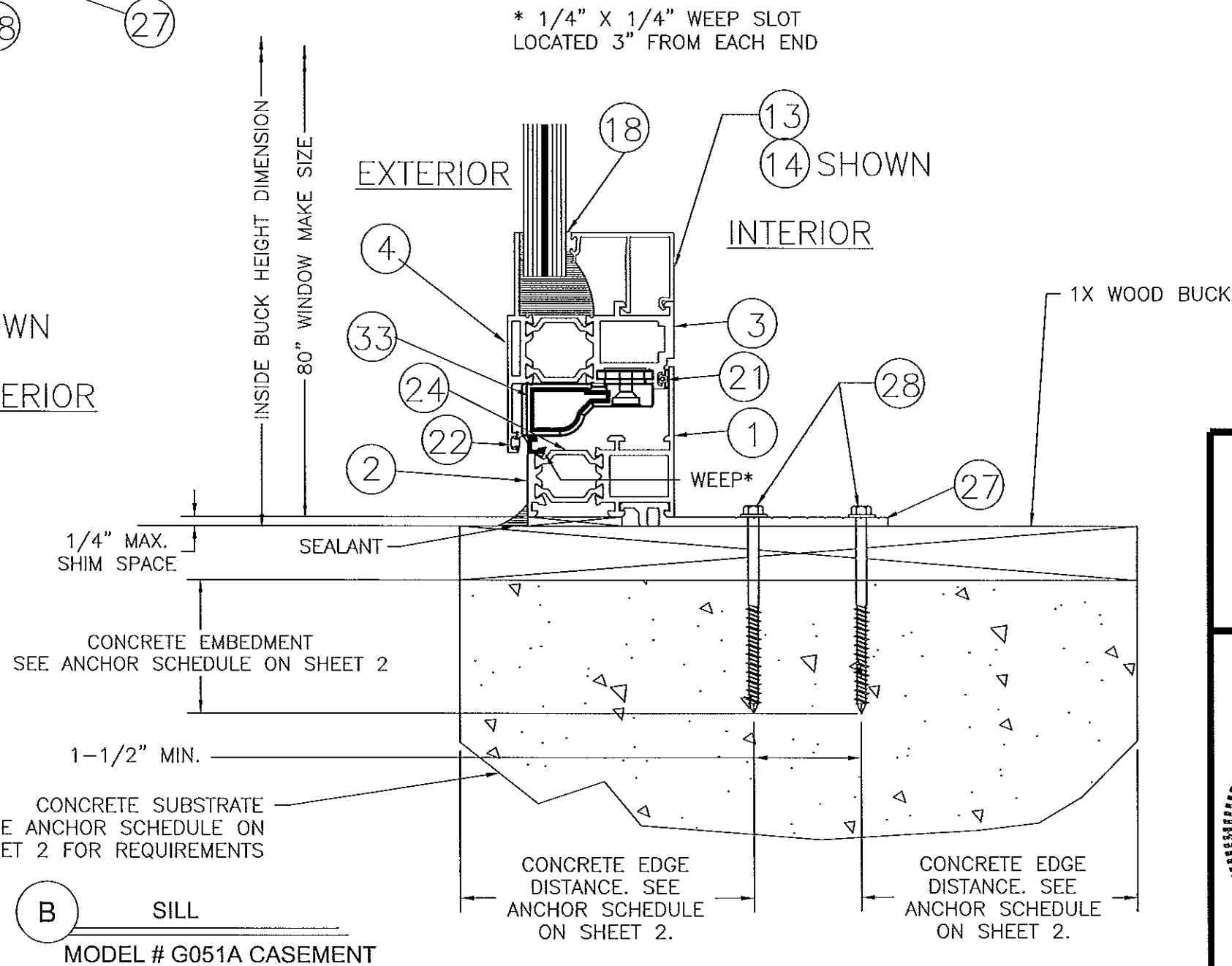
Approved as complying with the
Florida Building Code
Date _____
NOAH
Miami Dade Product Control
By _____

Robert J. Amoruso, P.E.
Florida P.E. No. 49752





G051A INSTALLATION **VERTICAL CROSS SECTION** SLIDE-ON STRAP IN CONCRETE OR MASONRY SUBSTRATE



PROJECT # 412-0906

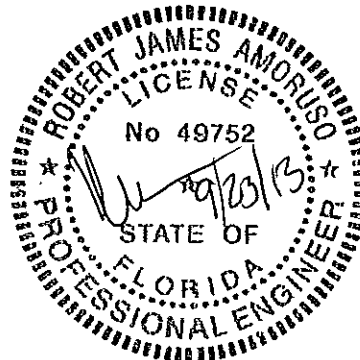
PEERLESS PRODUCTS, INC.
PO BOX 431, 2403 S. MAIN STREET
FORT SCOTT, KS 66701

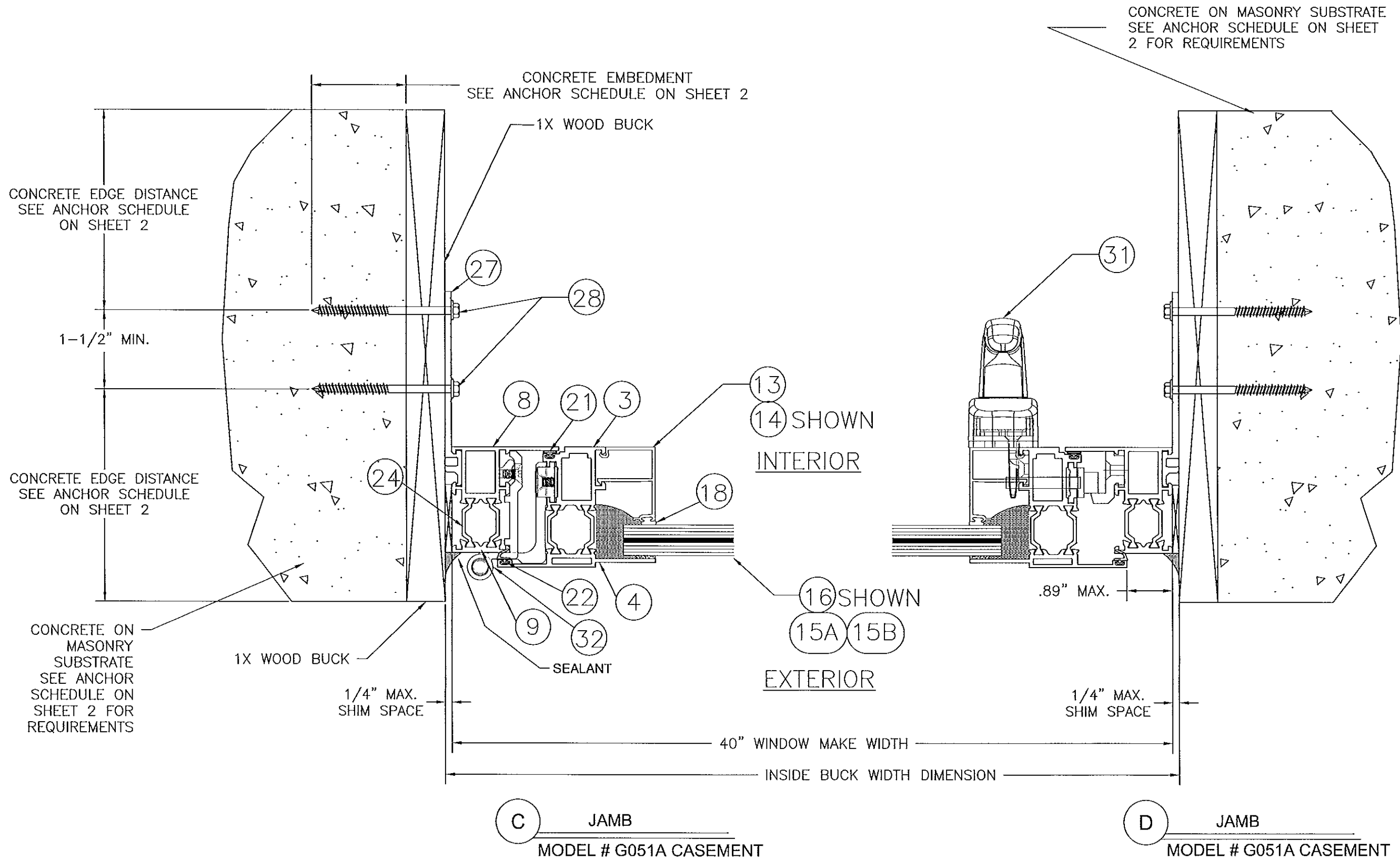
TITLE: SERIES G051 CASEMENT ALUM. THERMALLY BROKEN WINDOW
G051A VERT. INSTALLATION SECTIONS - CONCRETE/MASONRY

DATE:	09/19/13
DRAWING NO.:	PEER0002
SCALE:	N.T.S.
REV:	A
SHEET:	5 OF 16

Approved as complying with the
Florida Building Code
Date: Nov 14 2013
NOA# 13-0469-16
Miami Dade Product Control
By: [Signature]

Robert J. Amoroso, P.E.
Florida P.E. No. 49752





G051A INSTALLATION **HORIZONTAL CROSS SECTION** SLIDE-ON STRAP IN CONCRETE OR MASONRY SUBSTRATE

PROJECT # 412-0906

PEERLESS PRODUCTS, INC.
PO BOX 431, 2403 S. MAIN STREET
FORT SCOTT, KS 66701

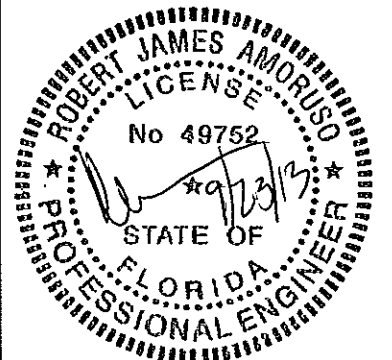
TITLE: SERIES G051 CASEMENT ALUM. THERMALLY BROKEN WINDOW
G51A HORIZ. INSTALLATION SECTIONS - CONCRETE/MASONRY

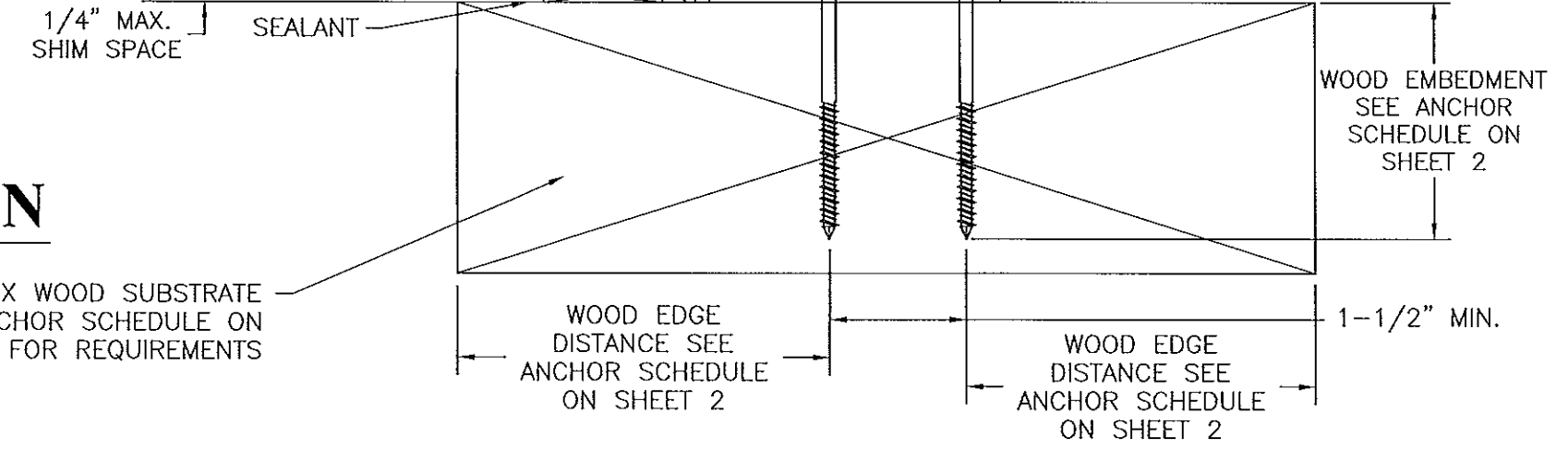
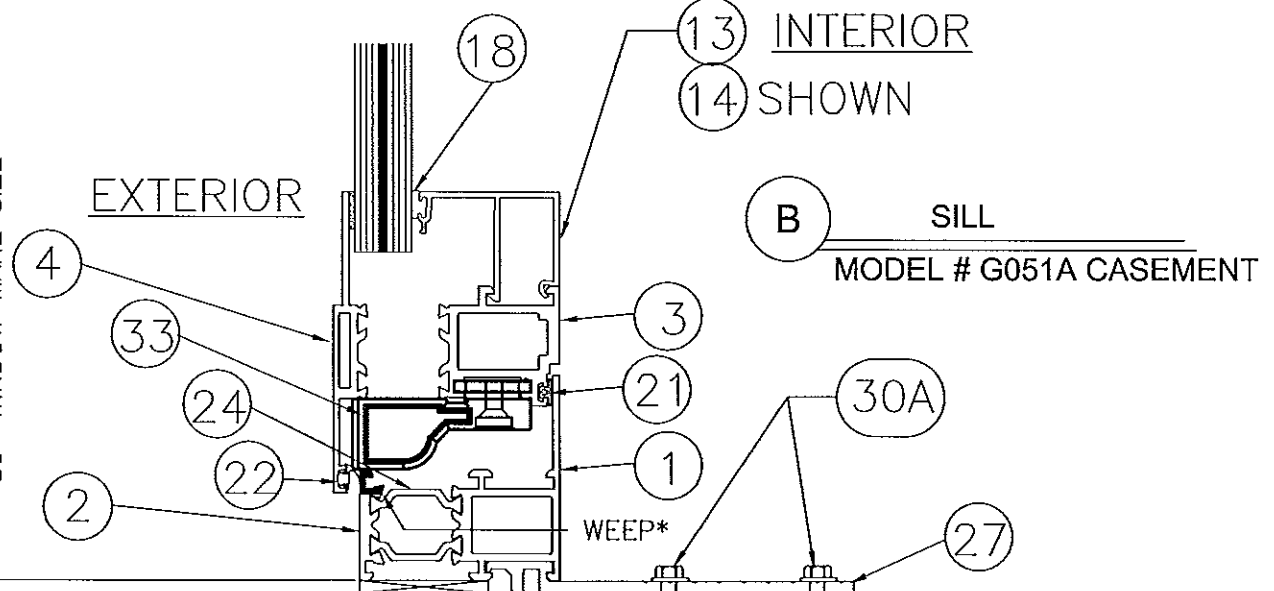
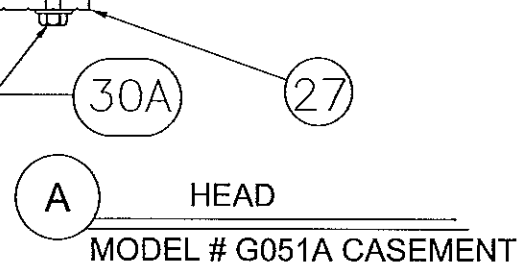
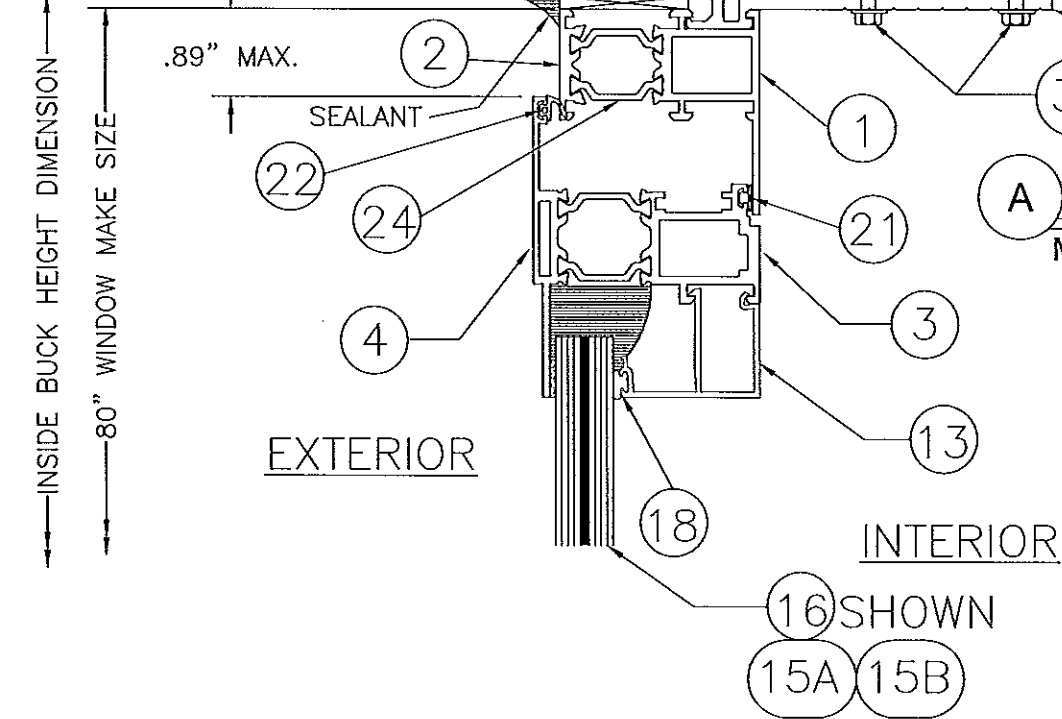
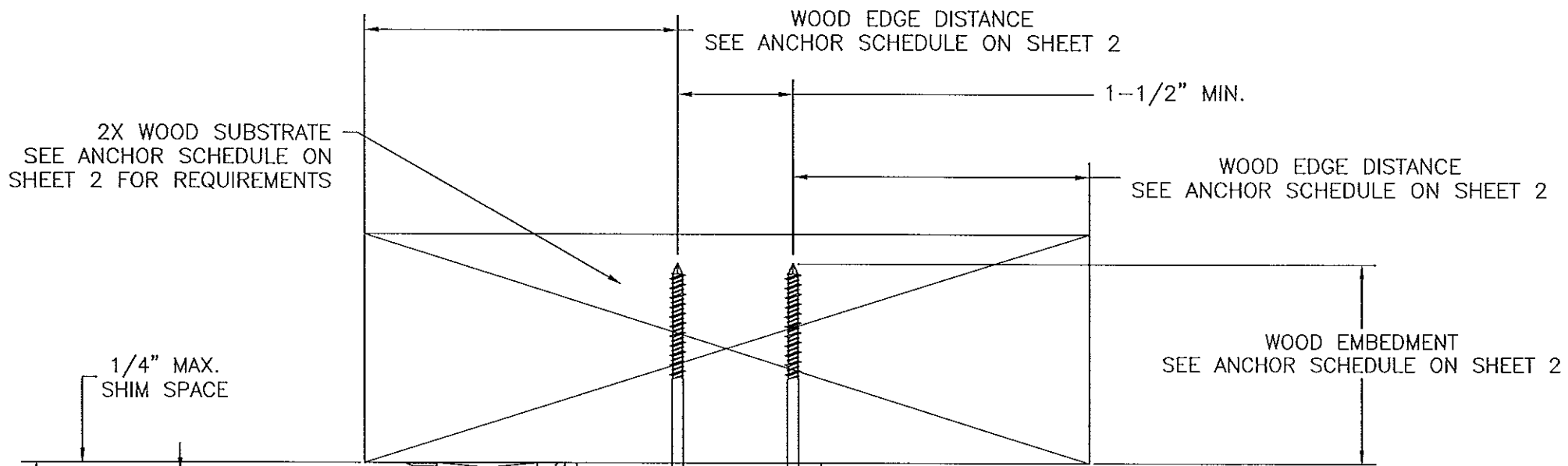
PREPARED BY: RJA
DATE: 09/19/13
SCALE: N.T.S.
DRAWING NO: PEER0002
REV: A
SHEET: 6 OF 16

PTC PRODUCT DESIGN GROUP, LLC
PO BOX 1000
LONGVIEW, TX 75601
Phone: 321.690.1788
Fax: 321.690.1789
Email: info@ptc-corp.com

Approved as complying with the
Florida Building Code
Date: Nov 4, 2013
NOA# 13-0409.16
Miami Dade Product Control
By: *Manuel Perez*

Robert J. Amoroso, P.E.
Florida P.E. No. 49752





G051A INSTALLATION VERTICAL CROSS SECTION

SLIDE-ON STRAP IN
WOOD SUBSTRATE

2X WOOD SUBSTRATE
SEE ANCHOR SCHEDULE ON
SHEET 2 FOR REQUIREMENTS

PROJECT # 412-0906

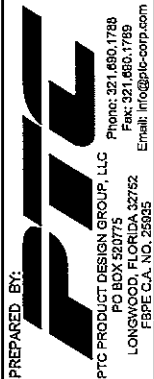
REV	DESCRIPTION	DATE	BY
A	REVISED PER MIAMI-DADE COMMENTS REC'D 8/8/13	9/23/13	RJA

PEERLESS PRODUCTS, INC.

PO BOX 431, 2403 S. MAIN STREET
FORT SCOTT, KS 66701

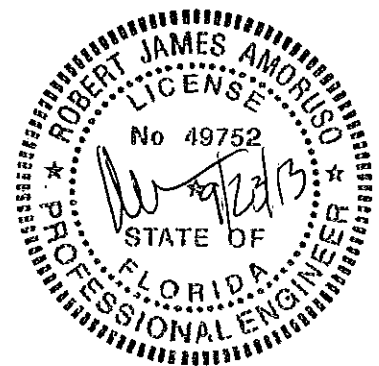
TITLE: SERIES G051 CASEMENT ALUM. THERMALLY BROKEN WINDOW
G051A VERTICAL INSTALLATION SECTIONS - WOOD

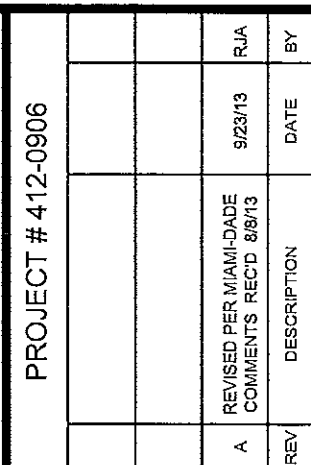
DATE:	09/19/13
DRAWING NO.:	PEER0002
SCALE:	N.T.S.
REV:	A
SHEET:	7 OF 16




Approved as complying with the
Florida Building Code
Date Nov 7 2013
NOA# 13-0409-16
Miami Dade Product Control
By [Signature]

Robert J. Amoroso, P.E.
Florida P.E. No. 49752

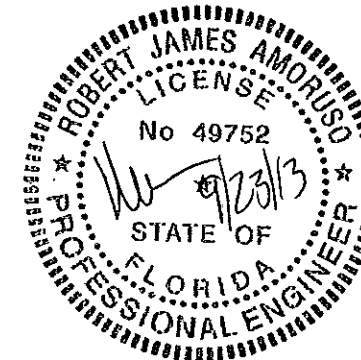




REPAIRED BY:		DRAWN BY:	RJA	DATE:	09/19/13
		SCALE:	N.T.S.	DRAWING NO:	PEER0002
		REV:	A	SHEET:	8 OF 16

PDC PRODUCT DESIGN GROUP, LLC
 10 BOWEN DRIVE
 LONGVIEW, TEXAS 75702
 ERBE, C.A. NO. 25393
 Phone: 321.480.1788
 Fax: 321.490.1769
 Email: info@pdc-corp.com

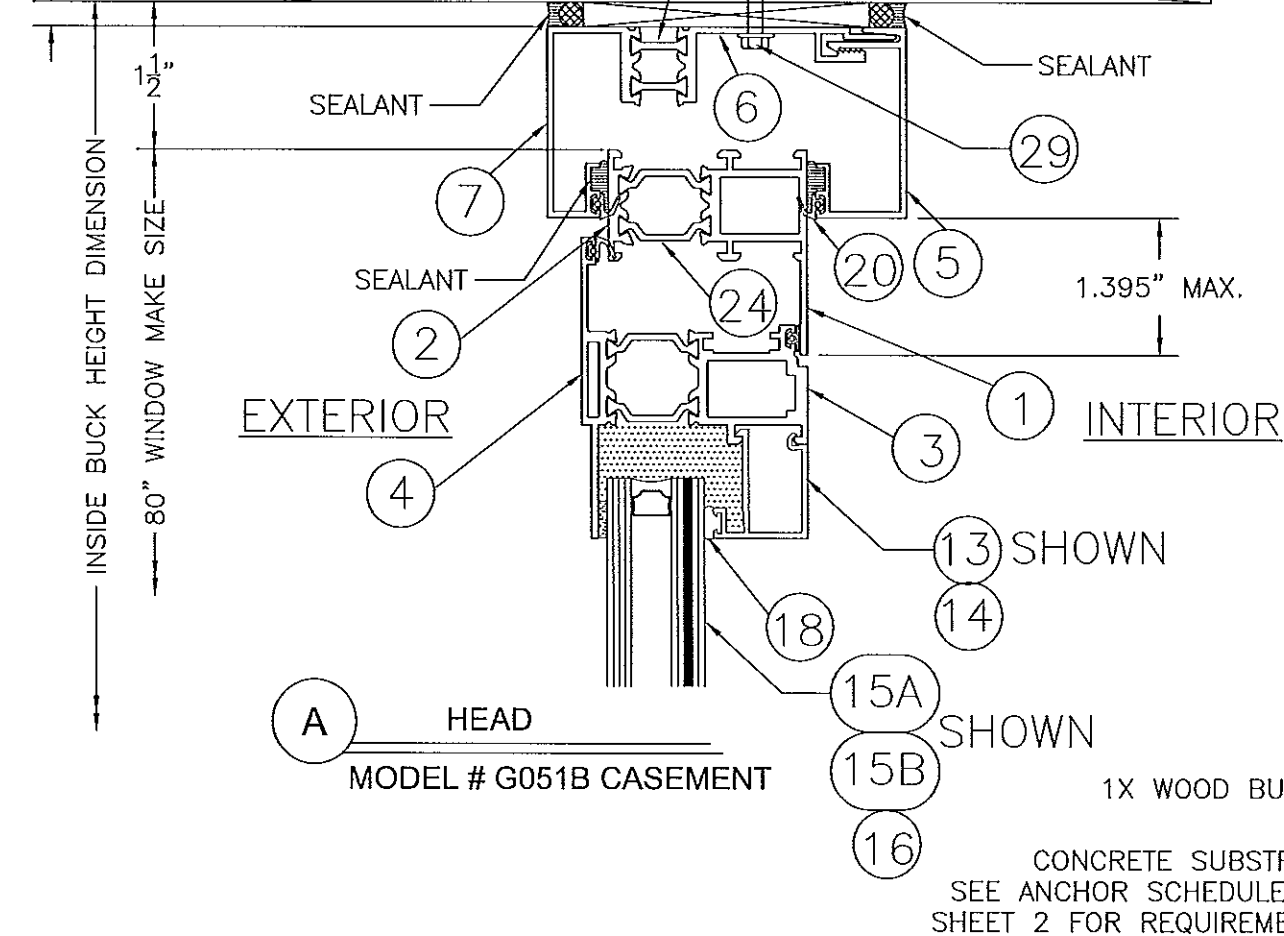
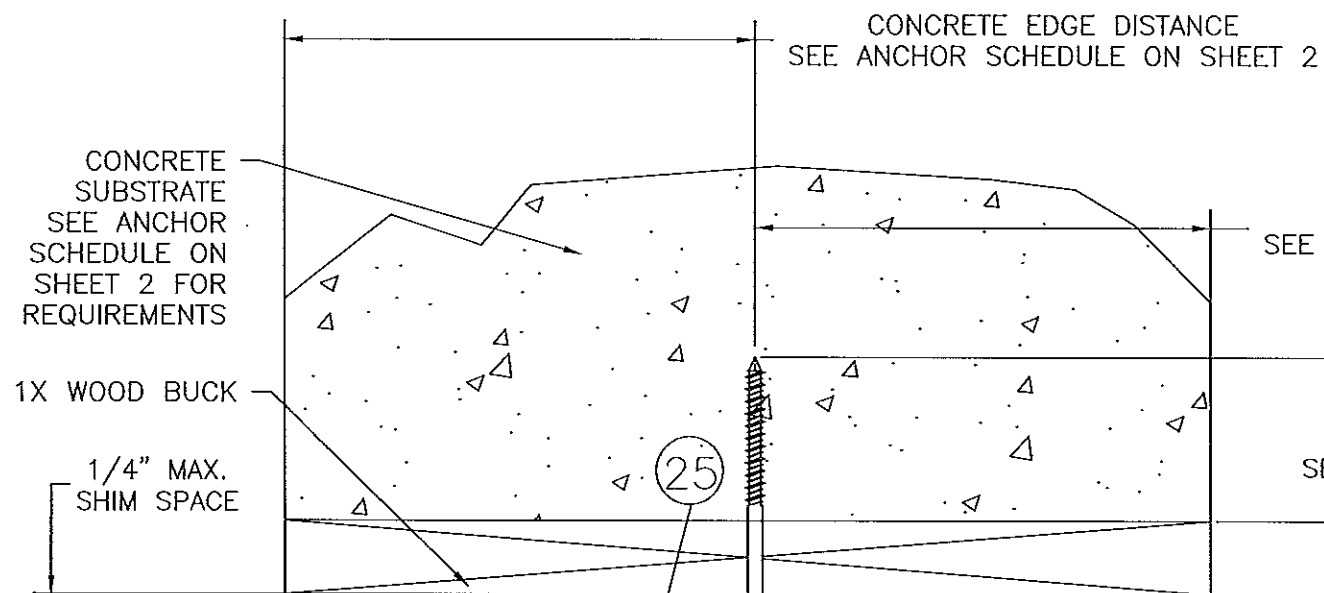
Robert J. Amoruso, P.E.
Florida P.E. No. 49752



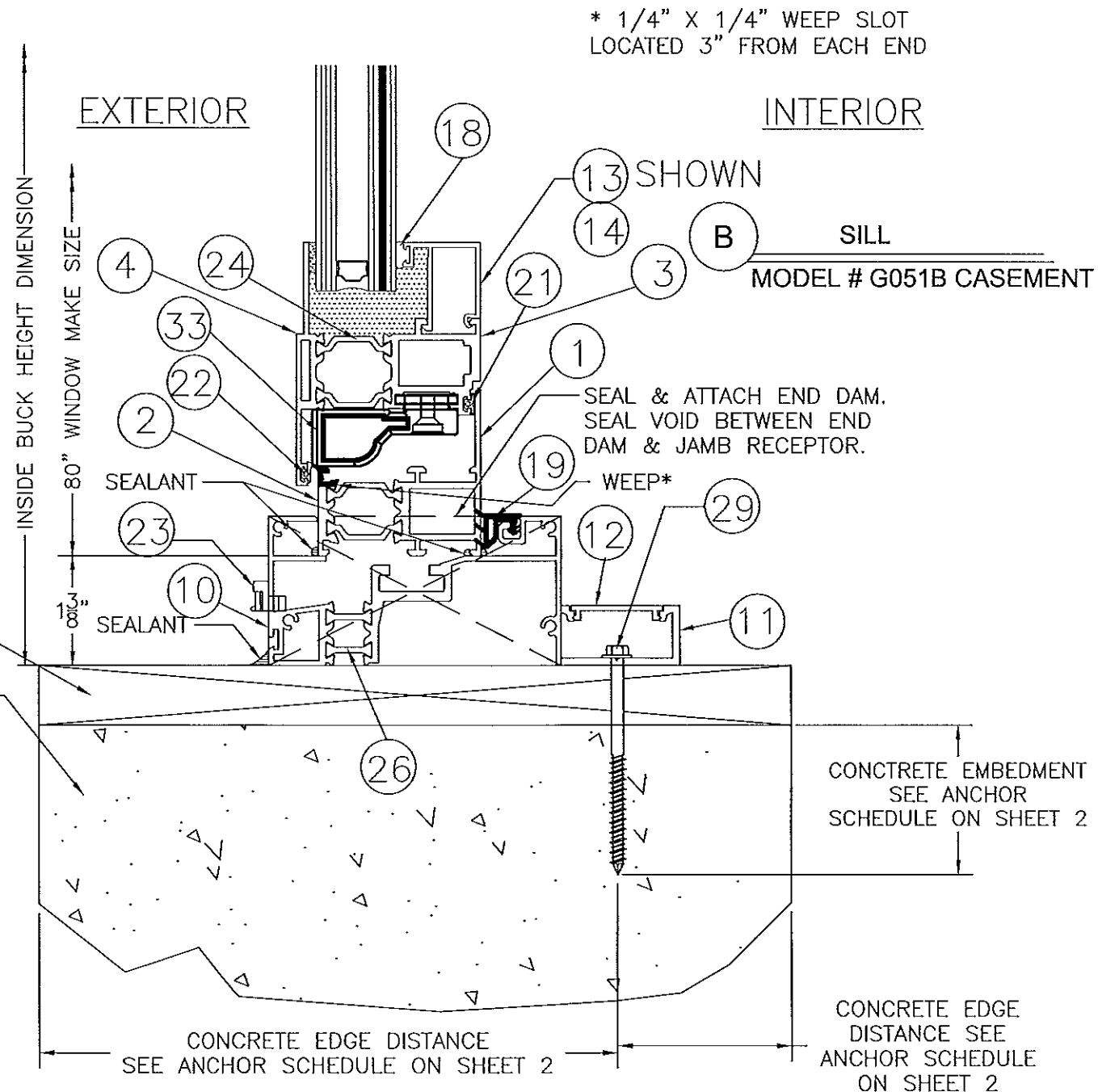
G051A INSTALLATION

HORIZONTAL CROSS SECTION

SLIDE-ON STRAP IN
WOOD SUBSTRATE



G051B INSTALLATION **VERTICAL CROSS SECTION** SUBFRAME IN CONCRETE OR MASONRY SUBSTRATE



PROJECT # 412-0906

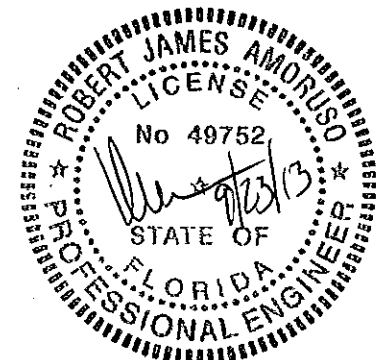
PEERLESS PRODUCTS, INC.
PO BOX 431, 2403 S. MAIN STREET
FORT SCOTT, KS 66701

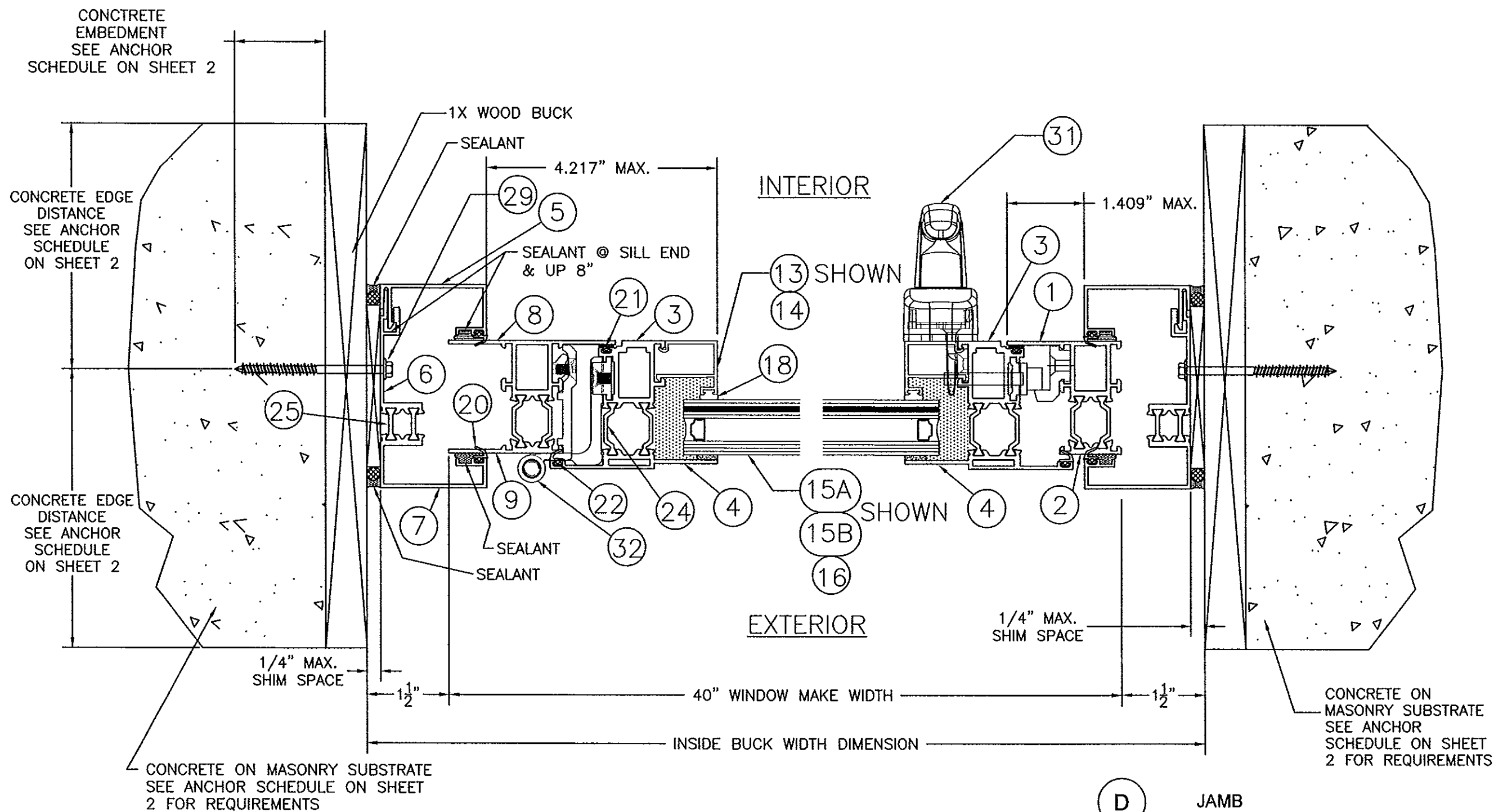
TITLE: SERIES G051 CASEMENT ALUM. THERMALLY BROKEN WINDOW
G051B VERT. INSTALLATION SECTIONS - CONCRETE/MASONRY

DATE	DRAWING NO.	SHEET
09/19/13	PEER0002	9 OF 16
DRAWN BY: RJA	SCALE: N.T.S.	REV: A
PREPARED BY: RJA	DATE: 09/19/13	DESCRIPTION: REVISED PER MIAMI-DADE COMMENTS REC'D 8/8/13
PTC PRODUCT DESIGN GROUP, LLC	PO BOX 1303	LONGWOOD, FL 32752
Phone: 321.860.1788	Fax: 321.860.1788	Email: info@ptc-corp.com
FBPE C.A. NO. 25035		

Approved as complying with the
Florida Building Code
Date: Nov. 14, 2013
NOAH 13-0409-16
Miami Dade Product Control
By: Manuel Perez

Robert J. Amoroso, P.E.
Florida P.E. No. 49752





C JAMB
MODEL # G051B CASEMENT

G051B INSTALLATION **HORIZONTAL CROSS SECTION** SUBFRAME IN CONCRETE OR MASONRY SUBSTRATE

D JAMB
MODEL # G051B CASEMENT

PROJECT # 412-0906

REV	DESCRIPTION	DATE	BY
A	REVISED PER MIAMI-DADE COMMENTS REC'D 8/8/13	9/23/13	RJA

PEERLESS PRODUCTS, INC.
PO BOX 431, 2403 S. MAIN STREET
FORT SCOTT, KS 66701

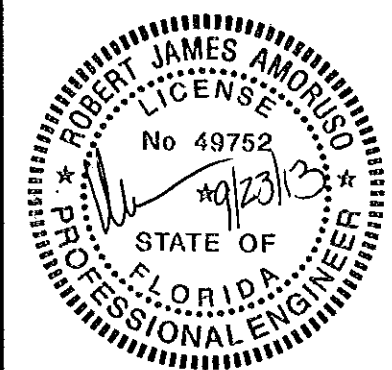
TITLE: SERIES G051 CASEMENT ALUM. THERMALLY BROKEN WINDOW
G051B HORIZ. INSTALLATION SECTIONS - CONCRETE/MASONRY

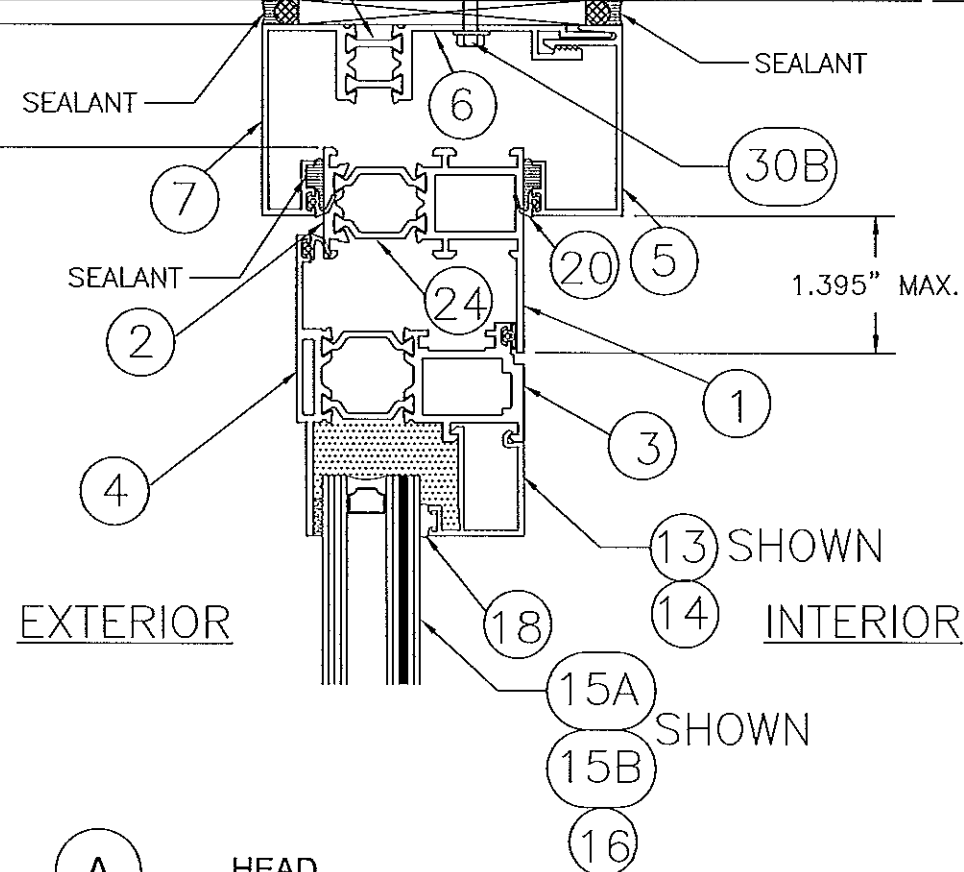
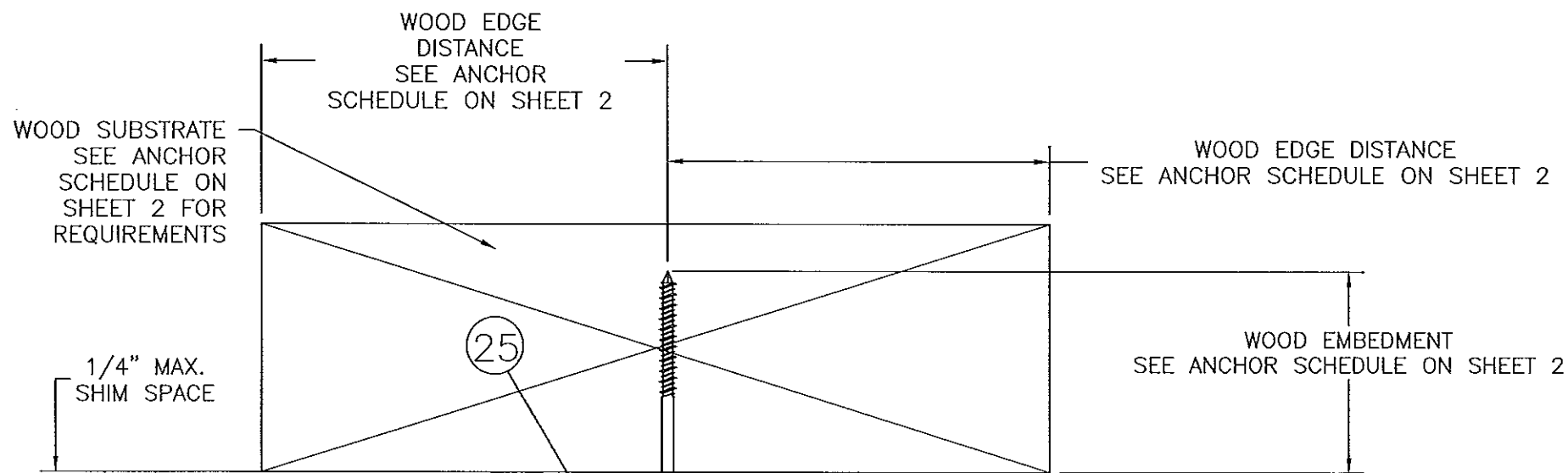
DATE:	09/19/13
DRAWING NO:	PEER0002
SCALE:	N.T.S.
REV:	A
SHEET:	10 OF 16

PREPARED BY: RJA
DRAWN BY: RJA
SCALE: N.T.S.
REV: A
SHEET: 10 OF 16

Approved as complying with the
Florida Building Code
Date: Nov 1, 2013
NOAH 13-0409.16
Miami Dade Product Control
By: *[Signature]*

Robert J. Amoroso, P.E.
Florida P.E. No. 49752

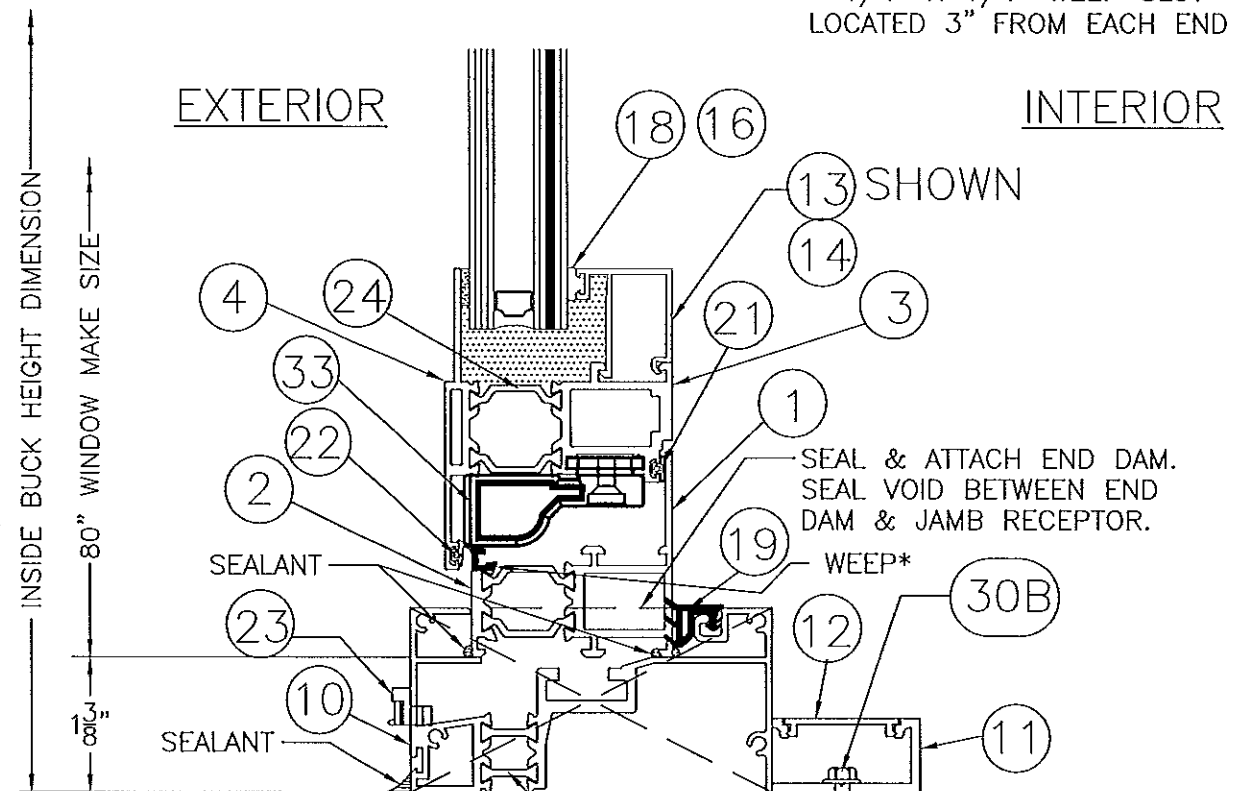




A HEAD
MODEL # G051B CASEMENT

G051B INSTALLATION VERTICAL CROSS SECTION SUBFRAME IN WOOD SUBSTRATE

WOOD SUBSTRATE
SEE ANCHOR SCHEDULE ON
SHEET 2 FOR REQUIREMENTS



B SILL
MODEL # G051B CASEMENT

WOOD EMBEDMENT
SEE ANCHOR
SCHEDULE ON
SHEET 2

WOOD EDGE DISTANCE
SEE ANCHOR SCHEDULE
ON SHEET 2

* 1/4" X 1/4" WEEP SLOT
LOCATED 3" FROM EACH END

PROJECT # 412-0906

PEERLESS PRODUCTS, INC.
PO BOX 431, 2403 S. MAIN STREET
FORT SCOTT, KS 66701

TITLE: SERIES G051 CASEMENT ALUM. THERMALLY BROKEN WINDOW
G051B VERTICAL INSTALLATION SECTIONS - WOOD

DATE	DRAWING NO.	REV	DESCRIPTION	DATE	BY
09/19/13	PEER0002	A	REVISED PER MIAMI-DADE COMMENTS REC'D 8/8/13	9/23/13	RJA

Approved as complying with the
Florida Building Code
Date Nov 17, 2013
NOA# 13-040916
Miami Dade Product Control
By [Signature]

Robert J. Amoroso, P.E.
Florida P.E. No. 49752



WOOD EMBEDMENT
SEE ANCHOR
SCHEDULE
ON SHEET 2

WOOD EDGE
DISTANCE SEE
ANCHOR
SCHEDULE
ON SHEET 2

WOOD EDGE
DISTANCE SEE
ANCHOR
SCHEDULE
ON SHEET 2

WOOD SUBSTRATE
SEE ANCHOR SCHEDULE ON SHEET
2 FOR REQUIREMENTS

1/4" MAX.
SHIM SPACE

C JAMB
MODEL # G051B CASEMENT

SEALANT

4.217" MAX.

SEALANT @ SILL END
& UP 8"

SEALANT
SEALANT

INTERIOR

EXTERIOR

40" WINDOW MAKE WIDTH

INSIDE BUCK WIDTH DIMENSION

1/4" MAX.
SHIM SPACE

D JAMB
MODEL # G051B CASEMENT

2X WOOD
SUBSTRATE SEE
ANCHOR SCHEDULE
ON SHEET 2 FOR
REQUIREMENTS

G051B INSTALLATION HORIZONTAL CROSS SECTION SUBFRAME IN WOOD SUBSTRATE

PROJECT # 412-0906

PEERLESS PRODUCTS, INC.
PO BOX 431, 2403 S. MAIN STREET
FORT SCOTT, KS 66701

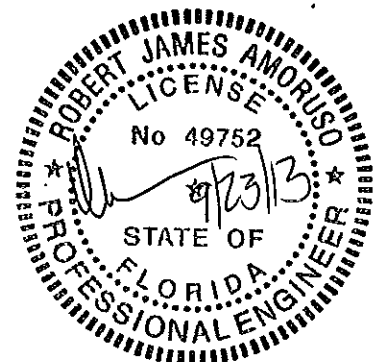
TITLE: SERIES G051 CASEMENT ALUM. THERMALLY BROKEN WINDOW
G051B HORIZONTAL INSTALLATION SECTIONS - WOOD

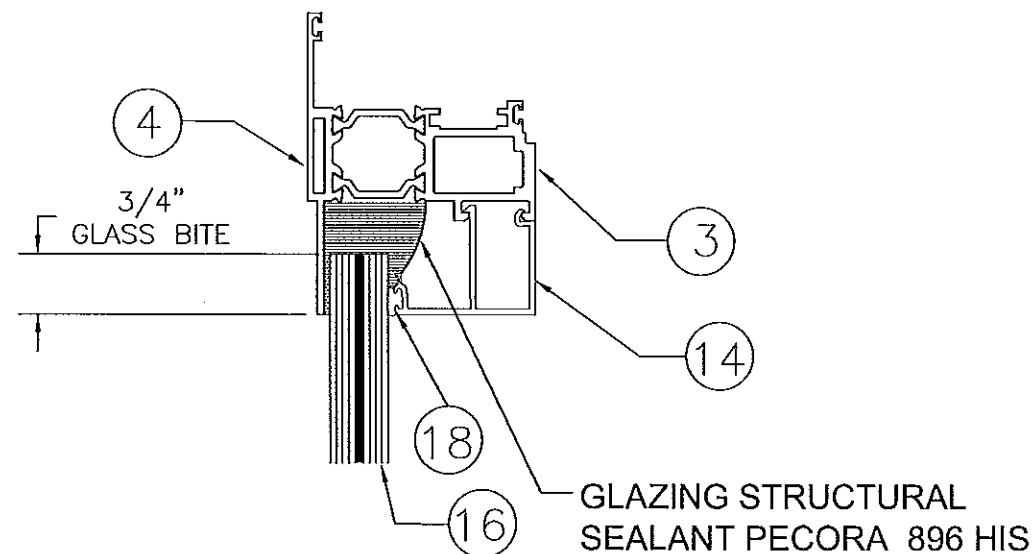
DATE	09/19/13
DRAWN BY:	RJA
SCALE	N.T.S.
REV:	A
DRAWING NO:	PEER0002
SHEET:	12 OF 16

PREPARED BY:
PTC PRODUCT DESIGN GROUP, LLC
PO BOX 520775
LONGWOOD, FL 32752
FIPS C.A. NO. 13303

Approved as complying with the
Florida Building Code
Date: Nov 1, 2013
NOA# 13-0409-16
Miami Dade Product Control
By: *[Signature]*

Robert J. Amoroso, P.E.
Florida P.E. No. 49752



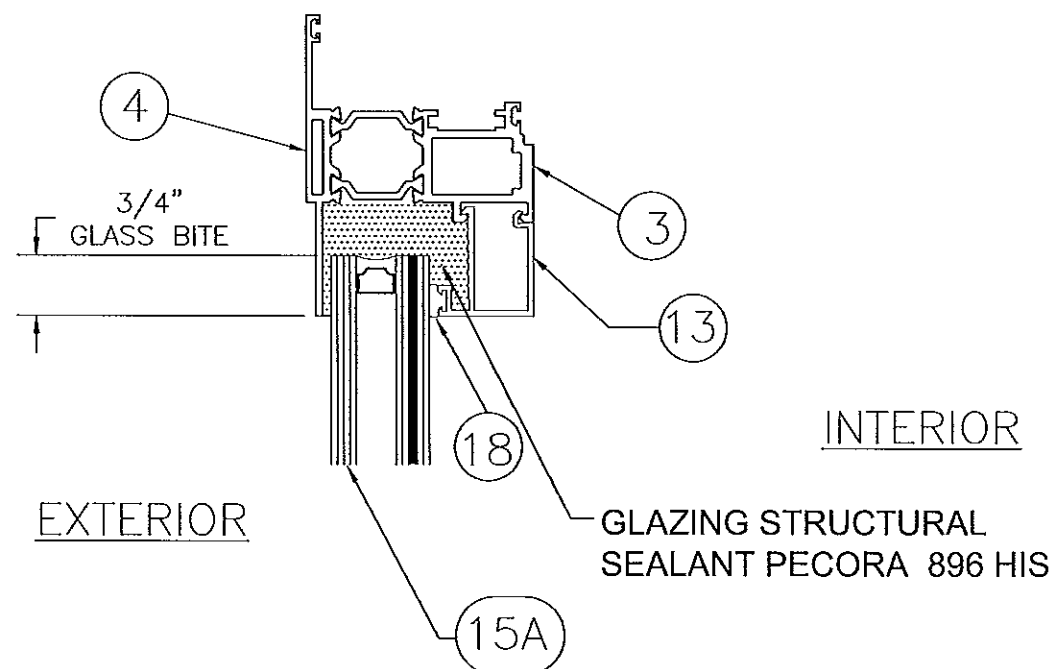


EXTERIOR

INTERIOR

GLAZING DETAIL A

9/16" O.A. LAMINATED GLAZING
1/4" ANNEALED X 0.090" DUPONT BUTACITE PVB X 1/4" ANNEALED



EXTERIOR

INTERIOR

GLAZING DETAIL B

1" LAMINATED INSULATING GLAZING
1/4" ANNEALED X 1/2" ALUMINUM AIR SPACE X 1/8" ANNEALED X
0.090" DUPONT BUTACITE PVB X 1/8" ANNEALED

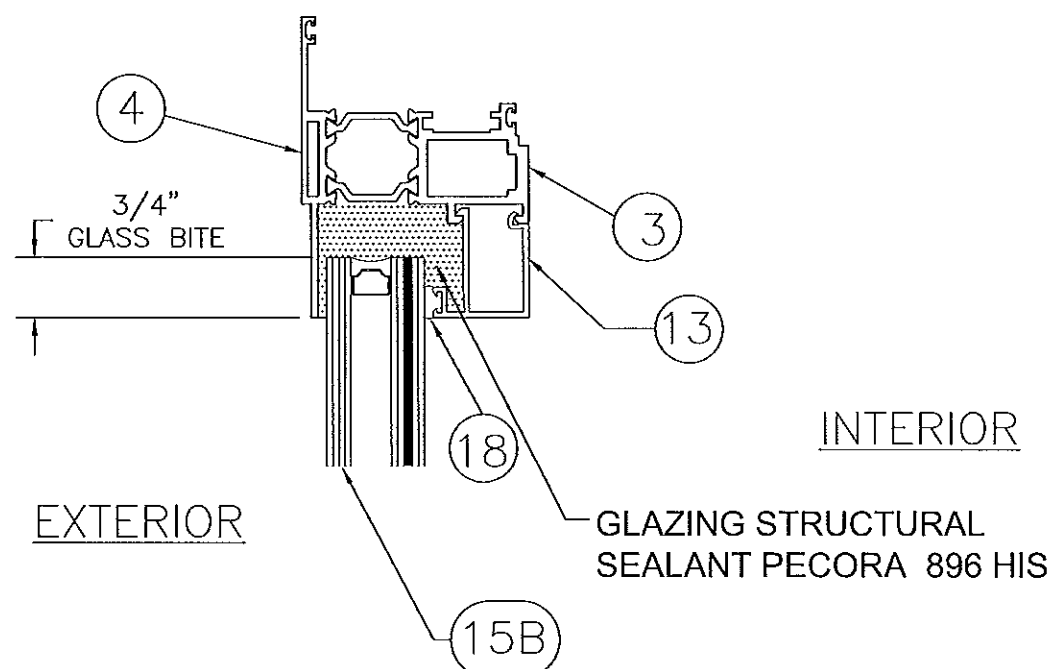
GLAZING DETAIL NOTES:

1. SETTING BLOCK REQUIREMENTS

- 1.1. A MINIMUM OF TWO (2) NEOPRENE SETTING BLOCKS WITH 70 TO 90 SHORE A DUROMETER HARDNESS ARE REQUIRED AT BOTTOM (SILL) OF GLAZING LITES MORE THAN 3 FEET IN WIDTH IN ACCORDANCE WITH 2010 FBC, SECTION 2411.3.3.1.
- 1.2. SETTING BLOCK GEORGIA GULF RIGID VINYL SUPPLIED BY CENTRAL PLASTICS, SHORE A HARNES 90.

2. LARGE AND SMALL MISSILE IMPACT LIMITATIONS

- 2.1. GLAZING DETAILS A AND C APPROVED FOR LARGE MISSILE AND SMALL MISSILE IMPACT.
- 2.2. GLAZING DETAIL B APPROVED FOR LARGE MISSILE IMPACT ONLY.
- 2.3. GLAZING DETAIL B DOES NOT MEET SMALL MISSILE IMPACT WIND-BORNE DEBRIS PROTECTION REQUIREMENTS AS REQUIRED BY 2010 FBC, SECTION 2411.3.3.7 WHEN THE EXTERIOR SINGLE-PLY GLAZING IS ANNEALED (SHOWN).



EXTERIOR

INTERIOR

GLAZING DETAIL C

1" LAMINATED INSULATING GLAZING
1/4" TEMPERED X 1/2" ALUMINUM AIR SPACE X 1/8" ANNEALED X
0.090" DUPONT BUTACITE PVB X 1/8" ANNEALED

PROJECT # 412-0906

PEERLESS PRODUCTS, INC.
PO BOX 431, 2403 S. MAIN STREET
FORT SCOTT, KS 66701

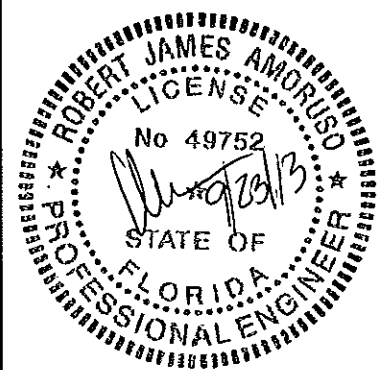
TITLE: SERIES G051 CASEMENT ALUM. THERMALLY BROKEN WINDOW
GLAZING DETAILS

PREPARED BY: RJA
DATE: 09/19/13
DRAWING NO.: PEER0002
SCALE: N.T.S.
SHEET: 13 OF 16
REV: A

PTC PRODUCT DESIGN GROUP, LLC
PO BOX 120775
LONG BEACH, CA 90801-0775
PHONE: 321.880.1788
FAX: 321.880.1789
EMAIL: info@ptc-corp.com

Approved as complying with the
Florida Building Code
Date: Nov. 7, 2013
NOA# 13-1409-16
Miami Dade Product Control
By: *Mmanuel Piz*

Robert J. Amoroso, P.E.
Florida P.E. No. 49752



BILL OF MATERIALS					
ITEM NO.	QTY.	PART NO.	DESCRIPTION	MATERIAL	MANUFACTURER OR REMARKS
1	4	032-005	INTERIOR FRAME	ALUMINUM ALLOY 6063-T5	PEERLESS PRODUCTS
2	4	032-119	EXTERIOR FRAME	ALUMINUM ALLOY 6063-T5	PEERLESS PRODUCTS
3	4	032-023	INTERIOR SASH	ALUMINUM ALLOY 6063-T5	PEERLESS PRODUCTS
4	4	032-120	EXTERIOR SASH	ALUMINUM ALLOY 6063-T5	PEERLESS PRODUCTS
5	3	032-144	SUB FRAME CLOSURE	ALUMINUM ALLOY 6063-T5	PEERLESS PRODUCTS
6	3	032-182	INTERIOR RECEPTOR	ALUMINUM ALLOY 6063-T5	PEERLESS PRODUCTS
7	3	032-211	EXTERIOR RECEPTOR	ALUMINUM ALLOY 6063-T5	PEERLESS PRODUCTS
8	1	032-006	INTERIOR FRAME	ALUMINUM ALLOY 6063-T5	PEERLESS PRODUCTS
9	1	032-036	EXTERIOR FRAME	ALUMINUM ALLOY 6063-T5	PEERLESS PRODUCTS
10	1	032-213	INTERIOR SUBSILL	ALUMINUM ALLOY 6063-T5	PEERLESS PRODUCTS
11	1	032-212	EXTERIOR SUBSILL	ALUMINUM ALLOY 6063-T5	PEERLESS PRODUCTS
12	AS REQ'D	091-167	INTERIOR SUBSILL CAP	ALUMINUM ALLOY 6063-T5	PEERLESS PRODUCTS
13	4	032-039	1" GLAZING BEAD - FIXED	ALUMINUM ALLOY 6063-T5	PEERLESS PRODUCTS
14	4	032-202	9/16" GLAZING BEAD - VENT	ALUMINUM ALLOY 6063-T5	PEERLESS PRODUCTS
15A	1	LC690NON	1" LAMINATED INSULATING GLAZING	1/4" ANNEALED X 1/2" ALUMINUM AIR SPACE X 1/8" ANNEALED X 0.090" DUPONT BUTACITE PVB X 1/8" ANNEALED	INSULITE GLASS CO.
15B	1	LC691NON	1" LAMINATED INSULATING GLAZING	1/4" TEMPERED X 1/2" ALUMINUM AIR SPACE X 1/8" ANNEALED X 0.090" DUPONT BUTACITE PVB X 1/8" ANNEALED	INSULITE GLASS CO.
16	1	LC9NON	9/16" O.A. LAMINATED GLAZING	1/4" ANNEALED X 0.090" DUPONT BUTACITE PVB X 1/4" ANNEALED	INSULITE GLASS CO.
17	AS REQ'D	81000178NON	INSULATING GLASS SPACER	13/32"	TECHNOFORM TGI SPACER
18	AS REQ'D	52000095NON	VINYL BULB SEAL/GASKET	SANTOPRENE TYPE 8201-70	EXXONMOBIL - SUPPLIED BY CENTRAL PLASTICS
19	AS REQ'D	52000111NON	SUBSILL WEDGE GASKET	SANTOPRENE TYPE 8201-70	
20	AS REQ'D	52000128NON	SUBFRAME GASKET	SANTOPRENE TYPE 8201-70	
21	AS REQ'D	52000128NON	SASH GASKET - INTERIOR	SANTOPRENE TYPE 8201-70	
22	AS REQ'D	52000128NON	SASH GASKET - EXTERIOR	SANTOPRENE TYPE 8201-70	
23	2	56000052NON	SUBFRAME WEEP CVR W/CAP	PLASTIC	1"x3/16" WEEP SLOT WITH GATE BAFFLE LOCATED 2-1/2" FROM EACH END OF SUBFRAME - ROYAL PLASTICS
24	AS REQ'D	57000009NON	FRAME THERMAL BREAK	POLYAMIDE WITH REINFORCED GLASS FIBERS	PA66, GF25 BY ENSINGER OR TECHNOFORM
25	AS REQ'D	57000001NON	SUBFRAME THERMAL BREAK	POLYAMIDE WITH REINFORCED GLASS FIBERS	PA66, GF25 BY ENSINGER OR TECHNOFORM
26	AS REQ'D	57000001NON	SUBSILL THERMAL BREAK	POLYAMIDE WITH REINFORCED GLASS FIBERS	PA66, GF25 BY ENSINGER OR TECHNOFORM
27	AS REQ'D	032-237	STRAP ANCHOR	ALUMINUM ALLOY 6063-T5	PEERLESS PRODUCTS
28	AS REQ'D	---	3/16" DIAMETER HEX HEAD OR FLAT HEAD CONCRETE SCREW	CARBON STEEL - COATED	ITW BUILDEX TAPCON (ADVANCED THREADFORM) ** OR ELCO ULTRACON **
29	AS REQ'D	---	1/4" DIAMETER HEX HEAD OR FLAT HEAD CONCRETE SCREW	CARBON STEEL - COATED	ITW BUILDEX TAPCON (ADVANCED THREADFORM) ** OR ELCO ULTRACON **
30A	AS REQ'D	---	NO. 12 WOOD OR TAPPING SCREW	CARBON STEEL - GRADE 2 - CORRISION PROTECTED	ANSI B18.6.1 (WS) OR ASME B18.6.4 (TS) **
30B	AS REQ'D	---	NO. 14 WOOD OR TAPPING SCREW	CARBON STEEL - GRADE 2 - CORRISION PROTECTED	ANSI B18.6.1 (WS) OR ASME B18.6.4 (TS) **
31	AS REQ'D	58000200NON AND 58000029NON	LOCK AND HANDLE KIT	STAINLESS STEEL	ADVANCED MANUFACTURING
32	5	58000069NON	BUTT HINGES	6063-T5	PEERLESS PRODUCTS
33	AS REQ'D	58000045NON	RISER BLOCK	OMNILON PA6 GR 33	ROYAL PLASTICS

** SEE INSTALLATION ANCHOR SCHEDULE ON SHEET 2

PROJECT # 412-0906

PEERLESS PRODUCTS, INC.
PO BOX 431, 2403 S. MAIN STREET
FORT SCOTT, KS 66701

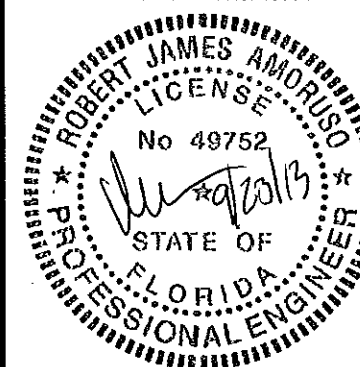
TITLE: SERIES G051 CASEMENT ALUM. THERMALLY BROKEN WINDOW
BILL OF MATERIALS

PREPARED BY: RJA
DATE: 09/19/13
DRAWING NO.: PEER0002
SCALE: N.T.S.
REV: A
SHEET: 14 OF 16

PTC PRODUCT DESIGN GROUP, LLC
PO BOX 620775
LONGWOOD, FLORIDA 32752
Phone: 321.460.1788
Fax: 321.460.1789
Email: info@ptc-corp.com

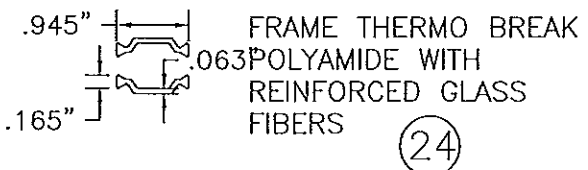
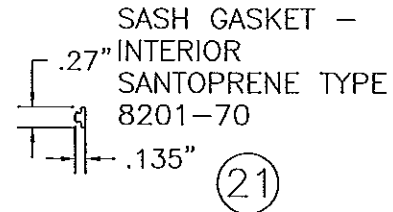
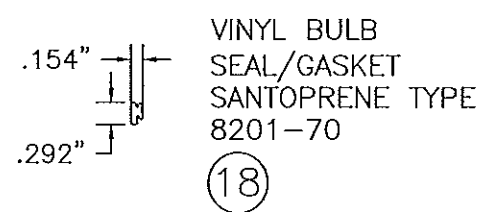
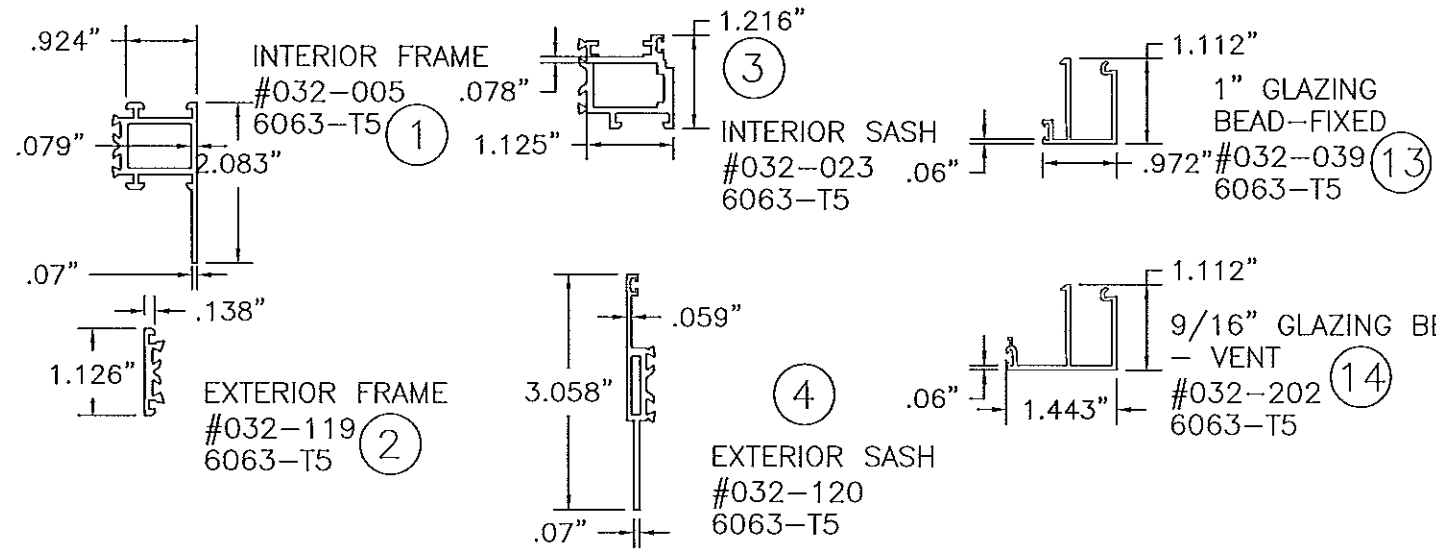
Approved as complying with the
Florida Building Code
Date: Nov 14 2013
NOAH 13-0409.16
Miami Dade Product Control
By: Manuel Perez

Robert J. Amoroso, P.E.
Florida P.E. No. 49752

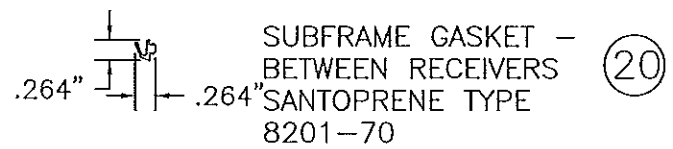
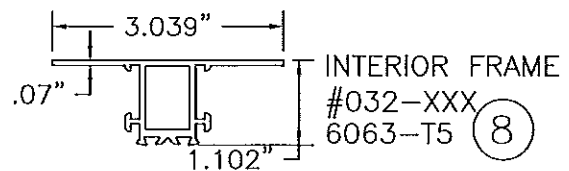
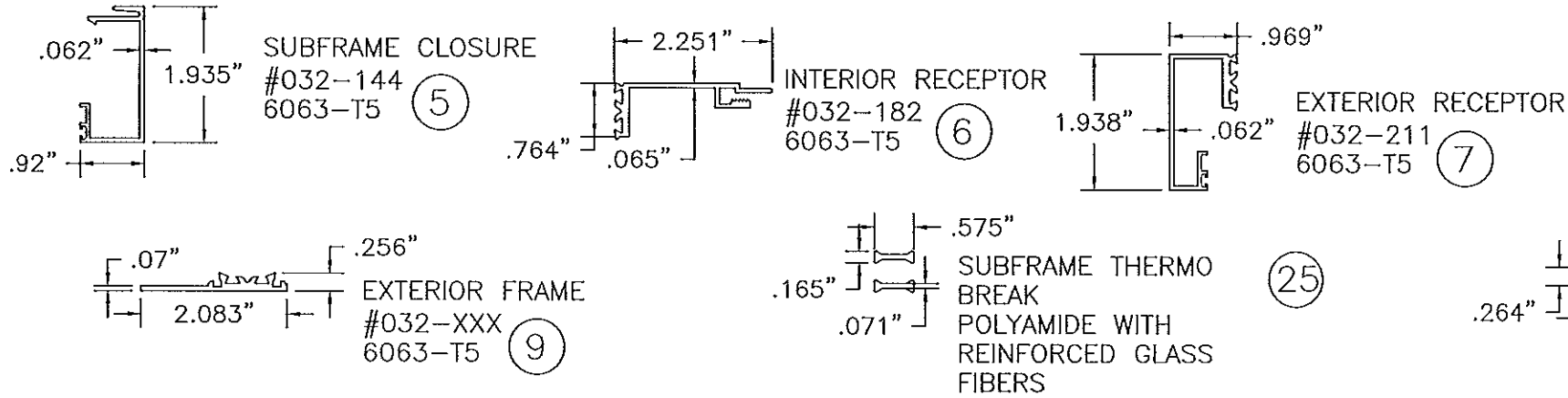


COMPONENT DETAILS

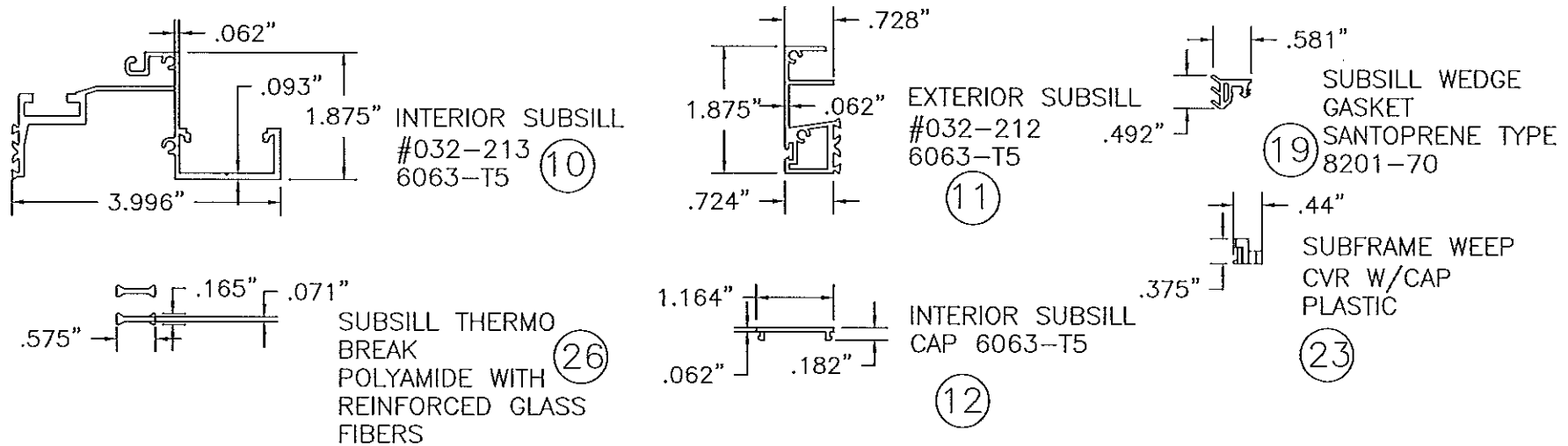
G051A AND G0051B COMPONENTS



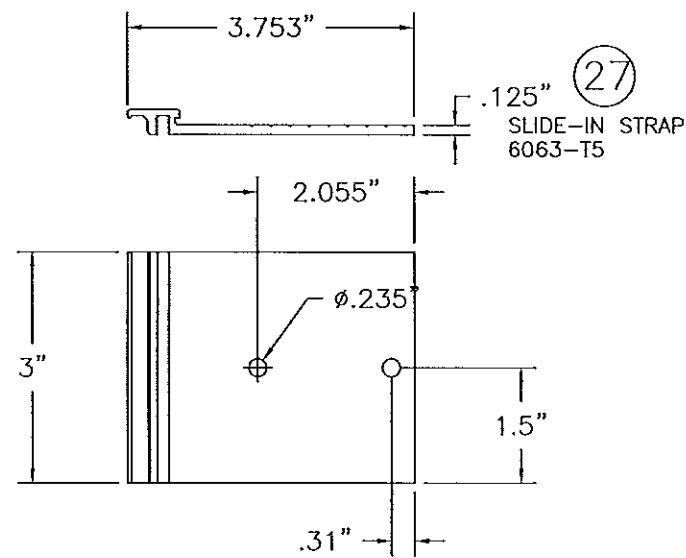
G051B COMPONENTS - HEAD AND JAMBS



G051B COMPONENTS - SILL



G051A ONLY COMPONENT



PROJECT # 412-0906

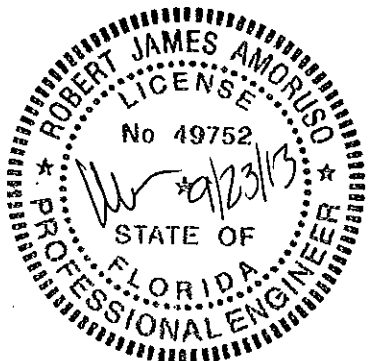
PEERLESS PRODUCTS, INC.
PO BOX 431, 2403 S. MAIN STREET
FORT SCOTT, KS 66701

TITLE: SERIES G051 CASEMENT ALUM. THERMALLY BROKEN WINDOW COMPONENT DETAILS

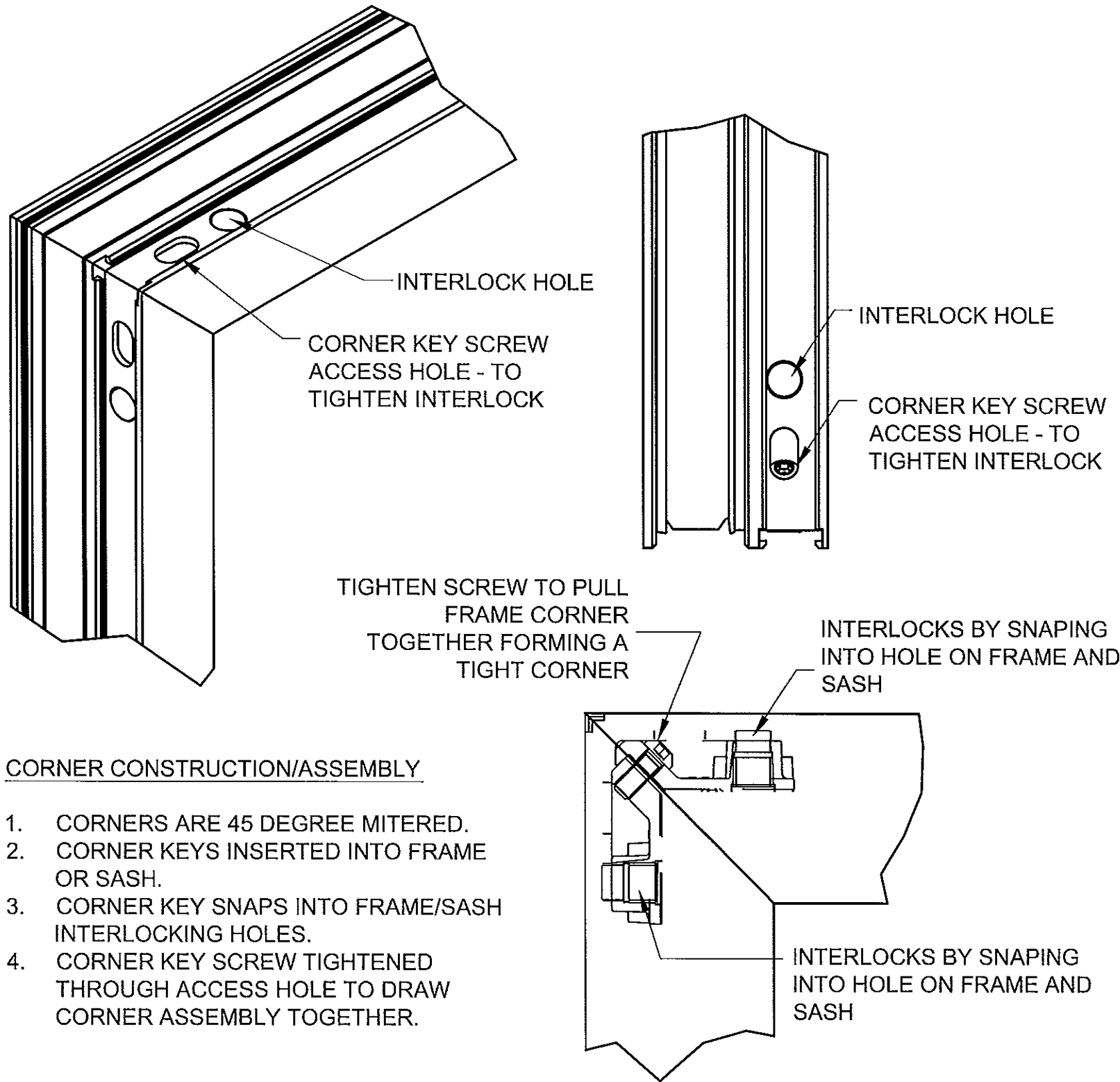
DRAWN BY:	RJA	DATE:	09/19/13
SCALE:	N.T.S.	DRAWING NO.:	PEER0002
REV:	A	SHEET:	15 OF 16

Approved as complying with the
Florida Building Code
Date: Nov 7, 2013
NOA# 13-040916
Miami Dade Product Control
By: Manuel Frey

Robert J. Amoroso, P.E.
Florida P.E. No. 49752



COMPONENT DETAILS



CORNER CONSTRUCTION/ASSEMBLY

1. CORNERS ARE 45 DEGREE MITERED.
2. CORNER KEYS INSERTED INTO FRAME OR SASH.
3. CORNER KEY SNAPS INTO FRAME/SASH INTERLOCKING HOLES.
4. CORNER KEY SCREW TIGHTENED THROUGH ACCESS HOLE TO DRAW CORNER ASSEMBLY TOGETHER.

HARDWARE DETAILS

1. LOCK AND HANDLE KIT
 - 1.1. MANUFACTURER: ADVANCED MANUFACTURING
 - 1.2. LOCATED AT CENTER OF LOCK STILE GROOVE.
 - 1.3. VENT LOCKING HARDWARE LOCATED AT
 - 1.3.1. 5" FROM TOP OF LOCK STILE,
 - 1.3.2. 4" FROM BOTTOM OF LOCK STILE, AND
 - 1.3.3. CENTERED 37" FROM BOTTOM OF LOCK STILE.
 - 1.4. LOCKING HARDWARE ALSO LOCATED AT
 - 1.4.1. CENTER OF VENT TOP RAIL,
 - 1.4.2. 5" FROM END OF TOP RAIL,
 - 1.4.3. 5" FROM END OF BOTTOM RAIL, AND
 - 1.4.4. CENTER OF VENT BOTTOM RAIL.
 - 1.5. VENT LOCK KEEPERS
 - 1.6. 1-1/4" X 1" X 3/8" THICK ALUMINUM BLOCKS
 - 1.7. ATTACHED TO FRAME WITH #10 X 3/4" PPH TEK SCREW.
2. BUTT HINGES
 - 2.1. MANUFACTURER: PEERLESS PRODUCTS
 - 2.2. LOCATED
 - 2.2.1. 8" FROM EACH END AND
 - 2.2.2. 16" O.C., TOTAL OF FIVE (5)
 - 2.3. ATTACHED TO VENT STILES WITH TWO (2) #10-32 X 3/4" PPH MS THAT TRAVEL THROUGH BRASS BACKING WHICH IS ATTACHED WITH ONE (1) #10 X 3/4" MS AND ATTACHED AT FRAME WITH TWO (2) #10 X 3/4" PPH MS WITH ALUMINUM BACKING.
3. RISER BLOCKS
 - 3.1. MANUFACTURER: ROYAL PLASTICS
 - 3.2. LOCATED 3" FROM EACH END OF VENT BOTTOM RAIL AND FRAME SILL, ATTACHED WITH #6 X 1" FLATHEAD TEK SCREW.

PROJECT # 412-0906

PEERLESS PRODUCTS, INC.
PO BOX 431, 2403 S. MAIN STREET
FORT SCOTT, KS 66701

TITLE: SERIES G051 CASEMENT ALUM. THERMALLY BROKEN WINDOW
CORNER CONSTRUCTION - HARDWARE DETAILS

DRAWN BY:	RJA	DATE:	09/19/13
SCALE:	N.T.S.	DRAWING NO.:	PEER0002
REV:	A	SHEET:	16 OF 16

PREPARED BY: **PTC**
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Approved as complying with the
Florida Building Code
Date: Nov 7, 2013
NOA# 13-0401.16
Miami Dade Product Control
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